


```

QY 1 MHRLEFVYTLICANFCSCRDTSATPOSASIKALRNANLRDSENLTLDRDETIQYKG 60
DB 1 MHRLEFVYTLICANFCSCRDTSATPOSASIKALRNANLRDSENLTLDRDETIQYKG 60
QY 61 NGYQSPRPNSYPNRLLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFEVEDIS 120
DB 61 NGYQSPRPNSYPNRLLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFEVEDIS 120
QY 121 ETSITIRGRCGKHKEVPRIKSRITNOIKITFKSDDYFAKPGFKIYYSLEDFOPAAASE 180
DB 121 ETSITIRGRCGKHKEVPRIKSRITNOIKITFKSDDYFAKPGFKIYYSLEDFOPAAASE 180
QY 181 TNMESVTSISGSVNSPSVDPPTLIADLADKKIAEPTVEDLKYFPESQEDLENMY 240
DB 181 TNMESVTSISGSVNSPSVDPPTLIADLADKKIAEPTVEDLKYFPESQEDLENMY 240
QY 241 LDPFRYGRSYHDRKSKYDLDRNDADKRYSCPTPNYSVNIREELKLANVVEFPRLCLVQ 300
DB 241 LDPFRYGRSYHDRKSKYDLDRNDADKRYSCPTPNYSVNIREELKLANVVEFPRLCLVQ 300
QY 301 RCGGNCGGTYVMNRSCITNSGKTYKKHEVLQFEPGHIKRRGRATMALVDIQLDHERC 360
DB 301 RCGGNCGGTYVMNRSCITNSGKTYKKHEVLQFEPGHIKRRGRATMALVDIQLDHERC 360
QY 361 DCICSSRPPR 370
DB 361 DCICSSRPPR 370

RESULT 3
AA71130
ID AA71130 standard; Protein: 370 AA.
XX
XX AA71130;
XX
XX 08-SEP-2000 (first entry)
XX
XX Human Platelet Derived Growth Factor (PDGF)-D protein.
XX
XX Platelet Derived Growth Factor-D; PDGF-D; human; cytosolic; vulnary;
XX VEGF-G; Vascular Endothelial Growth Factor; antiatherosclerotic; tumour;
XX proliferative; activator; proliferation; differentiation; motility;
XX growth; PDGF-D receptor; antagonist; tissue remodelling; treat;
XX atherosclerosis; wound; metastasis.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX FH 52..170
XX FT Domain
XX FT /Label= CUB_domain
XX FT /note= "Participates in protein-protein or carbohydrate
XX FT interactions"
XX FT 254..257
XX FT /Label= Proteolytic_site
XX FT /note= "Dibasic motif"
XX
XX WO200027879-A1.
XX
XX 18-MAY-2000.
XX
XX 10-NOV-1999; 99WO-US26462.
XX
XX 10-NOV-1998; 98US-0107852.
XX 28-DEC-1998; 98US-0113997.
XX 26-AUG-1999; 99US-0150604.
XX 04-OCT-1999; 99US-0157108.
XX 05-OCT-1999; 99US-0157756.
XX
XX (LUDWIG INST CANCER RES.
XX PA (UYHE-) UNIV HELSINKI LICENSING LTD OY.
XX
XX Eriksson U, Aase K, Fonten A, Lee X, Uutela M, Allitalo K;
PI

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PI Oestman A, Heldin C;
XX WPI: 2000-376495/32.
DR N-PSDB; AAD00738.
XX
XX Novel polynucleotides encoding a novel growth factor of cells
XX expressing a platelet-derived growth factor, useful for diagnostic and
XX therapeutic applications, e.g. concerning cancer -
XX
XX Claim 25; Fig 8; 11pp; English.
XX
XX The present sequence is the complete human platelet derived growth factor
XX (PDGF)-D, formally known as Vascular Endothelial Growth Factor (VEGF)-G.
XX It is derived from human foetal lung lamdagt10 cDNA library. It belongs
XX to the VEGF/PDGF family. It functions as an activator of proliferation,
XX differentiation, growth and motility of cells, that express PDGF-D
XX receptor. This sequence is useful for inhibiting the growth of tumours,
XX that express PDGF-D. Expression of PDGF-D and its proteolytic cleavage
XX for generating an activated truncated form is useful for regulating
XX receptor binding specificity of PDGF-D. PDGF-D antagonist is useful for
XX inhibiting tissue remodelling during the invasion of tumour cells into
XX normal cells. PDGF-D may be used to treat wounds, atherosclerosis,
XX metastasis and migration of smooth muscle cells.
XX
XX Sequence 370 AA:
SQ
XX
XX Query Match 100.0%; Score 1994; DB 21; Length 370;
XX Best Local Similarity 100.0%; Pred. No. 1,1e-188;
XX Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1 MHRLEFVYTLICANFCSCRDTSATPOSASIKALRNANLRDSENLTLDRDETIQYKG 60
DB 1 MHRLEFVYTLICANFCSCRDTSATPOSASIKALRNANLRDSENLTLDRDETIQYKG 60
QY 61 NGYQSPRPNSYPNRLLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFEVEDIS 120
DB 61 NGYQSPRPNSYPNRLLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFEVEDIS 120
QY 121 ETSITIRGRCGKHKEVPRIKSRITNOIKITFKSDDYFAKPGFKIYYSLEDFOPAAASE 180
DB 121 ETSITIRGRCGKHKEVPRIKSRITNOIKITFKSDDYFAKPGFKIYYSLEDFOPAAASE 180
QY 181 TNMESVTSISGSVNSPSVDPPTLIADLADKKIAEPTVEDLKYFPESQEDLENMY 240
DB 181 TNMESVTSISGSVNSPSVDPPTLIADLADKKIAEPTVEDLKYFPESQEDLENMY 240
QY 241 LDPFRYGRSYHDRKSKYDLDRNDADKRYSCPTPNYSVNIREELKLANVVEFPRLCLVQ 300
DB 241 LDPFRYGRSYHDRKSKYDLDRNDADKRYSCPTPNYSVNIREELKLANVVEFPRLCLVQ 300
QY 301 RCGGNCGGTYVMNRSCITNSGKTYKKHEVLQFEPGHIKRRGRATMALVDIQLDHERC 360
DB 301 RCGGNCGGTYVMNRSCITNSGKTYKKHEVLQFEPGHIKRRGRATMALVDIQLDHERC 360
QY 361 DCICSSRPPR 370
DB 361 DCICSSRPPR 370

RESULT 4
AAG65601
ID AAG65601 standard; Protein: 370 AA.
XX
XX AAG65601;
XX
XX 07-JAN-2002 (first entry)
XX
XX Human zveg4 polypeptide.
XX
XX zveg4; bone; ligament; cartilage; osteoblast; osteoclast; chondrocyte;
XX bone cancer; osteonecrosis; bone defect; osteogenesis; osteoporosis;
XX osteopathic; vulnary; human.
XX

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OS Homo sapiens.
 XX Key Location/Qualifiers
 FT Peptide 1..18
 FT Protein /note="secretory peptide"
 FT Protein 19..370
 FT Domain /note="mature protein"
 FT Domain 52..179
 FT Region /note="CUB domain"
 FT Region 180..257
 FT Domain /note="propeptide-like sequence"
 FT Domain 258..370
 FT Domain /note="growth factor domain"
 PN WO200157083-A1.
 XX 09-AUG-2001.
 XX 03-MAY-2000; 2000WO-US12095.
 XX 04-FEB-2000; 2000US-180169P.
 PR 31-MAR-2000; 2000US-0540224.
 XX (ZYMO) ZYMOGENETICS INC.
 XX Glibertson DG, Hart CE;
 PI MPI; 2001-611088/70.
 DR N-PSDB; AAA47772.
 XX Use of zvegf4 polypeptide for promoting bone, ligament or cartilage
 PT growth in mammal at site of fracture, implant, and bone graft, and for
 PT promoting growth or differentiation of osteoblasts, chondrocytes in
 PT culture
 XX Example 2; Page 44-47; 57pp; English.
 PS The invention relates to the use of zvegf4 polypeptide for promoting
 CC bone, ligament or cartilage growth in a mammal, and for promoting
 CC proliferation or differentiation of osteoblasts, osteoclasts,
 CC chondrocytes or bone marrow stem cells in culture. For promoting
 CC cartilage growth, chondrocytes are cultured ex vivo in presence of the
 CC zvegf4 polypeptide and then placed into mammal where cartilage is to be
 CC grown. Zvegf4 polypeptide is useful for promoting growth of bone,
 CC ligament or cartilage in a mammal at a site of bony defect such as
 CC fracture, bone graft, implant or periodontal pocket, in humans and non-
 CC human animals such as domestic animals including livestock and companion
 CC animals. Zvegf4 is used for promoting growth of bone, ligament, or
 CC cartilage in conditions of bone defects following therapeutic treatments
 CC of bone cancers or other conditions characterized by increased bone loss
 CC or decreased bone formation, or elevation of peak bone mass in pre-
 CC menopausal women. It is also useful for healing bone following radiation
 CC -induced osteonecrosis, repairing bone defects arising from surgery, and
 CC promotion of bone healing in plastic surgery, increasing bone formation
 CC during distraction osteogenesis, treating bone injuries including repair
 CC of cartilage and ligament and treatment of osteoporosis. The present
 CC sequence represents a human zvegf4 polypeptide.
 XX Sequence 370 AA;
 SQ
 Query Match 100.0%; Score 1994; DB 22; Length 370;
 Best Local Similarity 100.0%; Pred. No. 1,1e-188;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MHRLLFVYLICANFCSCRDTSATPOSASIKALRNANLRDSENLTDLYRRETQVKG 60
 DB 1 MHRLLFVYLICANFCSCRDTSATPOSASIKALRNANLRDSENLTDLYRRETQVKG 60
 QY 61 NGYVSPREPNSYPRNLLTLWRHSGENRIQLVDPNGGLEAEANDICRYFVEVEDS 120
 DB 61 NGYVSPREPNSYPRNLLTLWRHSGENRIQLVDPNGGLEAEANDICRYFVEVEDS 120
 QY 121 ESTTIRGRMGCHKEVPPRIKSRITNOIKITFKSDDYFAVKGPKFIYSLLEDPQPAASE 180
 DB 121 ESTTIRGRMGCHKEVPPRIKSRITNOIKITFKSDDYFAVKGPKFIYSLLEDPQPAASE 180

DB 121 ESTTIRGRMGCHKEVPPRIKSRITNOIKITFKSDDYFAVKGPKFIYSLLEDPQPAASE 180
 QY 181 TMNESVTSSISGYSYNSPSTVDPPLLDALDKTAEPDYEDLLKYNPESWQDLEMY 240
 DB 181 TMNESVTSSISGYSYNSPSTVDPPLLDALDKTAEPDYEDLLKYNPESWQDLEMY 240
 QY 241 LDTPRYGRSYHDKRSKYVDLDRNLNDAKRYSCPPRNYSVNIREELKLANVYFPPRCILVQ 300
 DB 241 LDTPRYGRSYHDKRSKYVDLDRNLNDAKRYSCPPRNYSVNIREELKLANVYFPPRCILVQ 300
 QY 301 RCGNCGCGTYNNRSCJNSGKYKKYHEVLOEPPGHKIRGRAKTALVDIQLDHERC 360
 DB 301 RCGNCGCGTYNNRSCJNSGKYKKYHEVLOEPPGHKIRGRAKTALVDIQLDHERC 360
 QY 361 DCICSSRPPR 370
 DB 361 DCICSSRPPR 370
 RESULT 5
 AAB85529 standard; protein; 370 AA.
 AAB85529;
 25-SEP-2001 (first entry)
 Human secreted protein (clone id HGCNC48).
 Secreted protein; immunosuppressive; antiarthritic; antirheumatic;
 antiapoptotic; cytosolic; cardiant; vasotropic; cerebroprotective;
 neotropic; neuroprotective; antibacterial; virucide; fungicide; human;
 ophthalmological; gene therapy.
 Homo sapiens.
 WO200155430-A1.
 02-AUG-2001.
 17-JAN-2001; 2001WO-US01431.
 31-JAN-2000; 2000US-0179065.
 04-FEB-2000; 2000US-0180628.
 12-SEP-2000; 2000US-0231968.
 (HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Komatsu G, Baker KP, Birse CE, Soppet DR, Olsen HS;
 Moore PA, Wei P, Ebner R, Duan DR, Shi Y, Choi GH, Fiscella M;
 Ni J, Ruben SM, Barash SC;
 MPI; 2001-476220/51.
 N-PSDB; AAA46939.
 17 isolated nucleic acid molecules encoding human secreted proteins,
 used to preventing, treating or ameliorating a medical condition
 Claim 11; Page 447-449; 482pp; English.
 The invention provides novel human secreted proteins and polynucleotides
 encoding them. The secreted proteins can be expressed by standard
 recombinant methodology. The secreted proteins and polynucleotides are
 used to prevent, treat or ameliorate a medical condition in e.g. humans,
 mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They can
 also be used in diagnosing a pathological condition. The antibodies to
 the proteins can also be used in alleviating symptoms associated with the
 disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme
 linked immunosorbent assays (ELISA). Disorders which are diagnosed or
 treated include autoimmune diseases e.g. Rheumatoid arthritis,
 hyperproliferative disorders e.g. neoplasms of the breast or liver,
 cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders

CC e.g. cerebral ischemia, angiogenesis, nervous system disorders e.g.
 CC Alzheimer's disease, infections caused by bacteria, viruses and fungi and
 CC ocular disorders e.g. corneal infection. The polypeptides can also be
 CC used to aid wound healing and epithelial cell proliferation, to prevent
 CC skin aging due to sunburn, to maintain organs before transplantation, for
 CC supporting cell culture of primary tissues, to regenerate tissues and in
 CC chemotaxis. The polypeptides can also be used as a food additive or
 CC preservative to increase or decrease storage capabilities. The present
 CC sequence represents a human secreted protein.

XX Sequence 370 AA:

Query Match 100.0%; Score 1994; DB 22; Length 370;
 Best Local Similarity 100.0%; Pred. No. 1,1e-188;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDSENLTLDRDETIOYKG 60
 DB 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDSENLTLDRDETIOYKG 60
 QY 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVLPDNOFGLBEAENDICRYDFVEVEDIS 120
 DB 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVLPDNOFGLBEAENDICRYDFVEVEDIS 120
 QY 121 ESTIIRGRCGKHKVPPRIKSRNQIKTFKSDYFYAKPGFKIYSLLEDFOPAAASE 180
 DB 121 ESTIIRGRCGKHKVPPRIKSRNQIKTFKSDYFYAKPGFKIYSLLEDFOPAAASE 180
 QY 181 TMSVTSISISGVSNPSVTDPTLIADALDKKIAEPTVEDLLKYFNESQOELENNY 240
 DB 181 TMSVTSISISGVSNPSVTDPTLIADALDKKIAEPTVEDLLKYFNESQOELENNY 240
 QY 241 LDTPYRGRSHYDRKSKVDLRLNDARKRYCTPRNYSVINIEEKLAVNVPFPCLLVQ 300
 DB 241 LDTPYRGRSHYDRKSKVDLRLNDARKRYCTPRNYSVINIEEKLAVNVPFPCLLVQ 300
 QY 301 RCGNGCGGTVMNRSCCTNSGCTVKKYHEVLQFEFGHIIKRRGRATMALVDIQLDHNHC 360
 DB 301 RCGNGCGGTVMNRSCCTNSGCTVKKYHEVLQFEFGHIIKRRGRATMALVDIQLDHNHC 360
 QY 361 DCICSSRPPR 370
 DB 361 DCICSSRPPR 370

RESULT 6

AAU00698 standard; Protein: 370 AA.

AAU00698;

07-SEP-2001 (first entry)

Human FCTR1 protein present in clone 30664188.0.99.

VEGF-E: platelet derived growth factor; PDGF; FCTR1: hyperplasia; cancer;
 neoplasia; anaemia; leukopenia; baldness; cardiovascular disorder;
 fibrotic disorder; diabetic ulcer; obesity; hyperproliferation; human;
 dysproliferation; neurodegenerative disorder; osteoarthritis; epilepsy;
 inflammatory disorder; Graft versus host disease; coagulation;
 haemophilia; neural disorder; Parkinson's disease; Alzheimer's disease;
 multiple sclerosis; Huntington's disease; amyotrophic lateral sclerosis;
 peripheral neuropathy; acute brain injury.

Homo sapiens.

Key Location/Qualifiers

Peptide 1..23

Protein /note= "Signal peptide"

Domain /note= "Mature FCTR1"

53..167

FT Domain /note= "CUB domain"
 FT 272..306
 FT /note= "PDGF domain"
 FT Modified-site 276
 FT /note= "N-linked glycosylation site"
 FT Domain 302..365
 FT /note= "Metallothionein domain"
 FT Domain 350..362
 FT /note= "PDGF domain"

WO200125437-A2.

12-APR-2001.

06-OCT-2000; 2000WO-US27671.

07-OCT-1999; 99US-0158083.

13-OCT-1999; 99US-0159231.

04-JAN-2000; 2000US-0174485.

03-MAR-2000; 2000US-0186707.

10-MAR-2000; 2000US-0188250.

08-AUG-2000; 2000US-0223879.

12-SEP-2000; 2000US-0662783.

20-SEP-2000; 2000US-0234082.

(CURA-) CURAGEN CORP.

Shinkets RA, Lichenstein H, Herrmann JL, Boldog FL, Minskoff S;
 Jeffers M;

WPI: 2001-316172/73.

N-PSDB: AAS04492.

Novel growth factor polypeptides termed as FCTR1 polypeptides, useful
 for treating cancer, cardiovascular and fibrotic diseases, diabetic
 ulcers, wound healing and neuronal disorders

Claim 1: Fig 1; 17pp; English.

The sequence represents a protein related to bone morphogenetic protein-1
 (BMP-1), vascular endothelial growth factor (VEGF-E) and platelet derived
 growth factor (PDGF). Polypeptides and polynucleotides related to BMP-1,
 VEGF-E and PDGF are referred to as FCTR1 peptides and nucleic acids.
 FCTR1 proteins are useful for treating or preventing a disorder
 associated with aberrant expression, aberrant processing, or aberrant
 physiological interactions of the proteins in a mammal, where the
 disorder is characterised by insufficient or ineffective growth of a cell
 or a tissue, e.g. hyperplasia or neoplasia. The peptides and their
 associated nucleic acids are useful for both promoting and inhibiting
 growth of cells and tissues and in treatment of cancer, anaemia,
 leukopenia, baldness, for treating cardiovascular and fibrotic disorders,
 diabetic ulcers, obesity, infectious diseases, hyperproliferative and
 dysproliferative disorders, neurodegenerative disorders, osteoarthritis,
 inflammatory disorders, Graft versus host disease, coagulation disorders
 such as haemophilia, and neural disorders including Parkinson's disease,
 Alzheimer's disease, multiple sclerosis, Huntington's disease,
 amyotrophic lateral sclerosis, peripheral neuropathy, acute brain injury
 and epilepsy.

Sequence. 370 AA:

Query Match 100.0%; Score 1994; DB 22; Length 370;

Best Local Similarity 100.0%; Pred. No. 1,1e-188;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDSENLTLDRDETIOYKG 60
 DB 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDSENLTLDRDETIOYKG 60
 QY 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVLPDNOFGLBEAENDICRYDFVEVEDIS 120
 DB 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVLPDNOFGLBEAENDICRYDFVEVEDIS 120


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Db 61 NGVQSPFPNSYPNNLLTWRLHSQENTRIQLVFDNQGLEAENDICRYDVEVEDIS 120
QY 121 EFTTIIRGRMCHEVPPRIKSRNQIKTFKSDYFAKPGFKIYISLLEDFOPAAASE 180
Db 121 EFTTIIRGRMCHEVPPRIKSRNQIKTFKSDYFAKPGFKIYISLLEDFOPAAASE 180
QY 181 TNWESVTSISGSVNSPSYDPTLIADALDKKIAEFTVDELKTFNPESQOEDLENNY 240
Db 181 TNWESVTSISGSVNSPSYDPTLIADALDKKIAEFTVDELKTFNPESQOEDLENNY 240
QY 241 LDTPRYGRGRSYHDKRSKYDLDRDLNDADAKRYSCTPRANYSVNIREEKLNAVVFPPRCLLVQ 300
Db 241 LDTPRYGRGRSYHDKRSKYDLDRDLNDADAKRYSCTPRANYSVNIREEKLNAVVFPPRCLLVQ 300
QY 301 RCGNGCGGTYNNWSCNCGTKYKKYHEVLQFEFGHIKRRGRAKTMALVLDIQLDHHERC 360
Db 301 RCGNGCGGTYNNWSCNCGTKYKKYHEVLQFEFGHIKRRGRAKTMALVLDIQLDHHERC 360
QY 361 DCICSSRPPR 370
Db 361 DCICSSRPPR 370

RESULT 10
ABP51640
ID ABP51640 standard; Protein: 370 AA.
AC ABP51640;
XX 30-SEP-2002 (first entry)
XX Human zvegf4 protein SEQ ID NO:2.
DE
XX
XX Human: zvegf4; cell proliferation; extracellular matrix production;
KM fibroproliferative disorder; PDGF-D; platelet derived growth factor;
KM PDGF; vascular endothelial growth factor; VEGF; cytoskeletal; nephrotropic;
KM hepatotropic; antiinflammatory; osteopathic; antiarthritic; metastasis;
KM prostate tumor; prostate cancer; glomerulonephritis; lupus nephritis;
KM diabetic glomerulosclerosis; renal arteriosclerosis; nephrotic syndrome;
KM chronic active hepatitis; cirrhosis; osteopetrosis; osteosclerosis;
KM hyperostosis; osteoarthritis.
XX
XX Homo sapiens.
OS
XX
XX US2002064832-A1.
XX
XX 30-MAY-2002.
XX
XX 14-MAR-2001; 2001US-0808972.
XX
XX 03-MAY-1999; 99US-132250P.
XX 10-NOV-1999; 99US-164463P.
XX 04-FEB-2000; 2000US-180169P.
XX 26-SEP-2000; 2000US-235295P.
XX 03-MAY-2000; 2000US-0564595.
XX
XX (HART/) HART C E.
XX (TOPO/) TOPOUZIS S.
XX (GILB/) GILBERTSON D G.
XX
XX Hart CE, Topouzis S, Gilbertson DG;
XX
XX WPI: 2002-573696/61.
XX N-PSDB; ABQ73239.
XX
XX Reducing proliferation or extracellular matrix production by a cell in
XX PT liver and kidney, comprises administering a zvegf4 antagonist
XX
XX Example 3; Page 19-20; 34pp; English.
XX
XX The present invention describes a method for reducing proliferation of
CC

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or extracellular matrix production by a cell in a mammal. The method comprises administering to the mammal a composition comprising a CC anti-zvegf4 antibodies, inhibitory polynucleotides, inhibitors of CC zvegf4 activation, and mitogenically inactive, receptor-binding variants of zvegf4. zvegf4 (also called PDGF-D) is a multi-domain protein that is CC structurally related to platelet derived growth factor (PDGF) and CC vascular endothelial growth factors (VEGF). zvegf4 has cytostatic, CC nephrotropic, hepatotropic, antiinflammatory, osteopathic and CC antiarthritic activities. The method is useful for reducing proliferation of mesangial, epithelial, endothelial, smooth muscle, fibroblast, CC osteoblast, osteoclast, neuronal, stromal, stellate or interstitial cells in a mammal, in particular proliferation of prostate tumour cells, and CC for reducing extracellular matrix production by a cell in a mammal CC suffering from a fibroproliferative disorder of kidney, bone or liver. CC In particular it is useful for reducing stellate cell activation. The CC method is useful for reducing metastasis of prostate cancer cells to CC bone in a mammal and for treating a fibroproliferative disorder of CC kidney, liver or bone in a mammal. Fibroproliferative disorders of the CC kidney include, glomerulonephritis, diabetic glomerulosclerosis, lupus CC nephritis, renal arteriosclerosis and nephrotic syndrome, disorders of CC the liver include chronic active hepatitis and many other types of CC cirrhosis, and disorders of the bone include osteopetrosis, hyperostosis, CC osteosclerosis, osteoarthritis, and ectopic bone formation in metastatic CC prostate cancer. The present sequence represents human zvegf4, which is CC used in an example from the present invention.

Sequence 370 AA;

Query Match 100.0%; Score 1994; DB 23; Length 370;

Best Local Similarity 100.0%; Pred. No. 1,1e-188; Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHRLLFYVTLICANFSCSDTSATFQASISIKALRNANLRDPSNHLTFLYRDETIQYKG 60
Db 1 MHRLLFYVTLICANFSCSDTSATFQASISIKALRNANLRDPSNHLTFLYRDETIQYKG 60
QY 61 NGVQSPFPNSYPNNLLTWRLHSQENTRIQLVFDNQGLEAENDICRYDVEVEDIS 120
Db 61 NGVQSPFPNSYPNNLLTWRLHSQENTRIQLVFDNQGLEAENDICRYDVEVEDIS 120
QY 121 EFTTIIRGRMCHEVPPRIKSRNQIKTFKSDYFAKPGFKIYISLLEDFOPAAASE 180
Db 121 EFTTIIRGRMCHEVPPRIKSRNQIKTFKSDYFAKPGFKIYISLLEDFOPAAASE 180
QY 181 TNWESVTSISGSVNSPSYDPTLIADALDKKIAEFTVDELKTFNPESQOEDLENNY 240
Db 181 TNWESVTSISGSVNSPSYDPTLIADALDKKIAEFTVDELKTFNPESQOEDLENNY 240
QY 241 LDTPRYGRGRSYHDKRSKYDLDRDLNDADAKRYSCTPRANYSVNIREEKLNAVVFPPRCLLVQ 300
Db 241 LDTPRYGRGRSYHDKRSKYDLDRDLNDADAKRYSCTPRANYSVNIREEKLNAVVFPPRCLLVQ 300
QY 301 RCGNGCGGTYNNWSCNCGTKYKKYHEVLQFEFGHIKRRGRAKTMALVLDIQLDHHERC 360
Db 301 RCGNGCGGTYNNWSCNCGTKYKKYHEVLQFEFGHIKRRGRAKTMALVLDIQLDHHERC 360
QY 361 DCICSSRPPR 370
Db 361 DCICSSRPPR 370

RESULT 11
ABG64733
ID ABG64733 standard; Protein: 370 AA.
XX
XX ABG64733;
XX
XX 27-AUG-2002 (first entry)
XX
XX Human albumin fusion protein #1408.
XX
XX Albumin fusion protein; therapeutic protein X; human albumin; HA;
KW

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KW human serum albumin; HSA; cancer; reproductive disorder;
 KW digestive disorder; immune disorder; endocrine disorder;
 KW haematopoietic disorder; neural disorder; connective disorder;
 KW cytostatic; antinfertility; antiinflammatory; antitumor;
 KW immunomodulator; anti-HIV; antidiabetic; haemostatic; nootropic;
 KW neuroprotective; antiparkinsonian; antimicrobial; neuroleptic;
 KW osteopathic; antiarthritic.
 XX
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200177137-A1.
 XX
 PD 18-OCT-2001.
 XX
 PF 12-APR-2001; 2001WO-US11988.
 XX
 PR 12-APR-2000; 2000US-229358P.
 XX
 PR 25-APR-2000; 2000US-199384P.
 XX
 PR 21-DEC-2000; 2000US-256931P.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Haseltine WA;
 XX
 DR WPI; 2002-010886/01.
 XX
 PT New fusion protein for treating disease e.g. diabetes comprises an
 PT albumin fused to a therapeutic protein -
 XX
 PS Claim 1; Page 1459-1460; 2102pp; English.
 XX
 CC The present invention relates to albumin fusion proteins comprising a
 CC therapeutic protein X and human albumin (HA, also known as human serum
 CC albumin, HSA). The proteins are useful for treating a disease or
 CC disorder that may be modulated by therapeutic protein X. The albumin
 CC extends the shelf-life of protein X, and may increase its biological
 CC in vitro/in vivo activity. The protein is useful for treating and
 CC diagnosing disorders such as cancer, reproductive disorders, digestive
 CC disorders (e.g. Crohn's disease, ulcerative colitis), immune disorders
 CC (e.g. acquired immunodeficiency syndrome, AIDS), endocrine disorders
 CC (e.g. diabetes), haematopoietic disorders, neural disorders
 CC (e.g. Alzheimer's, Parkinson's, Creutzfeldt-Jacob disease,
 CC encephalomyelitis, meningitis, schizophrenia), and connective disorders
 CC (e.g. osteoporosis, arthritis). ABG63326-ABG63518 represent albumin
 CC fusion proteins of the invention.
 CC
 XX
 SQ Sequence 370 AA:
 Query Match 100.0%; Score 1994; DB 23; Length 370;
 Best Local Similarity 100.0%; Pred. No. 1.1e-188;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLFFVYLICANFCSCRDTSATPOSASIKALRNANLREDSNHLTDLYRDETIQVKG 60
 DB 1 MHRLFFVYLICANFCSCRDTSATPOSASIKALRNANLREDSNHLTDLYRDETIQVKG 60
 QY 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVFDNPGFLEAENDICRYFVEVEDIS 120
 DB 61 NGYVSPRPNSYPNNLLTWRLHSOENTRIQVFDNPGFLEAENDICRYFVEVEDIS 120
 QY 121 EFTSTIRGRWCGHKRVPRIKSRTOIKTEKSDIYFAKPEFKIYSLLEDFOPAAASE 180
 DB 121 EFTSTIRGRWCGHKRVPRIKSRTOIKTEKSDIYFAKPEFKIYSLLEDFOPAAASE 180
 QY 181 TMNESVTSISGSVNSPSVTDPTLADALDKIAEFTVEEDLLKYFNESWQEDLENNY 240
 DB 181 TMNESVTSISGSVNSPSVTDPTLADALDKIAEFTVEEDLLKYFNESWQEDLENNY 240
 QY 241 LDTPIYRGSRSHDRSKVDLRLNDADAKYSCTPRNYSVINREELKLANVVEFPRLCLVQ 300
 DB 241 LDTPIYRGSRSHDRSKVDLRLNDADAKYSCTPRNYSVINREELKLANVVEFPRLCLVQ 300

QY 301 RCGMCGGTVNMRSCCTNSGKTVKKEHVLQFEFGHKIRGRATMALVDIQLDHHERC 360
 DB 301 RCGMCGGTVNMRSCCTNSGKTVKKEHVLQFEFGHKIRGRATMALVDIQLDHHERC 360
 QY 361 DCICSSRPR 370
 DB 361 DCICSSRPR 370
 RESULT 12
 AAB47891
 ID AAB47891 standard; Protein; 370 AA.
 XX
 AC AAB47891;
 XX
 DT 16-MAY-2002 (first entry)
 XX
 DE Human zvegfg.
 XX
 KW Human; mouse; zvegfg3; zvegfg4; platelet derived growth factor;
 KW PDGF; homology; growth; bone; ligament; cartilage; proliferation;
 KW osteoblast; chondrocyte; bony defect; fracture; bone graft;
 KW implant; periodontal pocket; osteoclast; bone marrow stem cell;
 KW osteoporosis.
 XX
 OS Homo sapiens.
 XX
 PN US2002004225-A1.
 XX
 PD 10-JAN-2002.
 XX
 PF 29-MAR-2001; 2001US-0823033.
 XX
 PR 07-DEC-1998; 980S-111173P.
 XX
 PR 06-JUL-1999; 99US-142576P.
 XX
 PR 21-OCT-1999; 99US-161653P.
 XX
 PR 12-NOV-1999; 99US-165255P.
 XX
 PR 31-MAR-2000; 2000US-193723P.
 XX
 PR 07-DEC-1999; 99US-0457066.
 XX
 PA (HART/) HART C E.
 PA (GILB/) GILBERTSON D G.
 PI Hart CE, Gilbertson DG;
 XX
 DR WPI; 2002-171026/22.
 XX
 PT Promoting growth of bone, ligament or cartilage in a mammal, involves
 PT administering to the mammal a protein which comprises growth factor
 PT domain of zvegfg3 protein, a homolog of platelet-derived growth factor
 PT -
 XX
 PS Claim 8; Page 20-21; 31pp; English.
 XX
 CC This sequences represents human zvegfg4. zvegfg4 can be used in a
 CC composition with either human or mouse zvegfg3, for promoting growth of
 CC bone, ligament or cartilage and stimulating proliferation of osteoblasts
 CC or chondrocytes in a mammal. zvegfg3 is a platelet derived growth factor
 CC (PDGF) homolog. The zvegfg3 protein used was preferably a dimeric
 CC protein of residues 235-345 of human zvegfg3 or all of the mouse zvegfg3
 CC protein, with a delivery vehicle. The method of th invention is useful
 CC for promoting growth of bone, ligament or cartilage in a mammal, where
 CC the composition is administered at a site of a bony defect, preferably
 CC a fracture, bone graft site, implant site, or periodontal pocket, and
 CC for stimulating proliferation of osteoblasts or chondrocytes in a
 CC mammal. It is further useful for promoting proliferation of osteoblasts,
 CC osteoclasts, chondrocytes or bone marrow stem cells, where the bone
 CC marrow stem cells are harvested from a patient prior to culture. The
 CC method is therefore useful for treating osteoporosis.
 CC
 XX
 SQ Sequence 370 AA:
 Query Match 100.0%; Score 1994; DB 23; Length 370;

Best Local Similarity 100.0%; Pred. No. 1,1e-188;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHRLEFVYLLICANFCSCRDTSATPQASISAKLRNANLRDSENLDTLYRDETIQYKG 60
Db 1 MHRLEFVYLLICANFCSCRDTSATPQASISAKLRNANLRDSENLDTLYRDETIQYKG 60
QY 61 NGYVSPRPNSYPNLLTWRLHSENTRIQLVFDNPGLEAENDICRYDFVEVEDIS 120
Db 61 NGYVSPRPNSYPNLLTWRLHSENTRIQLVFDNPGLEAENDICRYDFVEVEDIS 120
QY 121 ETSITIRGRCGHEVPPRIKSRNQIKTFKSDYFAKGGFKIYSLDEFOPAASE 180
Db 121 ETSITIRGRCGHEVPPRIKSRNQIKTFKSDYFAKGGFKIYSLDEFOPAASE 180
QY 181 TMSVTSISGVSINSPSVTPTLIADALDKIAEFTVDLKYFNPESMOEDLENNY 240
Db 181 TMSVTSISGVSINSPSVTPTLIADALDKIAEFTVDLKYFNPESMOEDLENNY 240
QY 241 LDTPRYGRSYHDKRSKYDLRLNDADAKRYSCPTPRNYSVNIREELKLANVFFPRCLLYQ 300
Db 241 LDTPRYGRSYHDKRSKYDLRLNDADAKRYSCPTPRNYSVNIREELKLANVFFPRCLLYQ 300
QY 301 RCGNCGCGTYNMWSCCTCNSGKTYKHYEVLQEPGHIKRRGRAKTALVDIQLDHHERC 360
Db 301 RCGNCGCGTYNMWSCCTCNSGKTYKHYEVLQEPGHIKRRGRAKTALVDIQLDHHERC 360
QY 361 DCICSSRPPR 370
Db 361 DCICSSRPPR 370

```

RESULT 13

AAE15819
ID AAE15819 standard; Protein: 370 AA.

AC AAE15819;

DT 26-MAR-2002 (first entry)

DE Human LP85 protein #1.

XX LP85; platelet-derived growth factor; PDGF; antiinflammatory; vulnery;
KW osteopathic; neuroprotective; tranquilliser; musculoskeletal disorder;
MSD; therapy; bone growth; cartilage differentiation; wound healing;
KW neuron growth; bone fracture; osteoporosis; osteopenia; arthritis;
KW sarcopenia; periodontal disease; tissue atrophy; endocrine disorder;
KW muscle loss; immobility; bone density.

XX Homo sapiens.

OS Homo sapiens.

FT Peptide 1..12

FT Protein 13..370

PN W0200189450-A2.

XX 29-NOV-2001.

PE 08-MAY-2001; 2001WO-US11755.

PR 19-MAY-2000; 2000US-205424P.

PR 11-JAN-2001; 2001US-261071P.

PR 11-JAN-2001; 2001US-261076P.

PA (ELIL) LILLY & CO ELI.

PI Beals JM, Gonzales-Dewhitt PA, Hammond LJ, Lu J, Na S, Su EW;

PI Wlitcher DR, Wroblewski VJ;

XX WPI; 2002-083040/11.

DR N-PSDB; AAE15819.

XX Analog of a platelet-derived growth factor homolog, LP85 useful for
PT treating osteoporosis, arthritis, sarcopenia, wounds, has one or more
PT amino acid substitutions which destroy the tripeptidyl sequence of
PS native LP85 -

PS Claim 11; Page 109-110; 117pp; English.

The present invention relates to LP85, an analogue of platelet-derived growth factor (PDGF) homologue. Sequences of the invention are useful for the manufacture of a medicament for treating musculoskeletal disorder (MSD) which include promoting bone growth, cartilage differentiation and function, wound healing, neuron growth, preventing cartilage degradation or neuronal degeneration. They are useful for treating bone fractures, osteoporosis, osteopenia, arthritis, sarcopenia, periodontal disease, tissue atrophy, traumatised connective tissues, grafted connective tissues and/or transplanted organs, bone or muscle loss due to malignancy, endocrine disorders and immobility. They are also used for prophylactically increasing or maintaining bone density in a mammal. The present sequence is human LP85 protein.

Sequence 370 AA;

Query Match 100.0%; Score 194; DB 23; Length 370;
Best Local Similarity 100.0%; Pred. No. 1,1e-188;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHRLEFVYLLICANFCSCRDTSATPQASISAKLRNANLRDSENLDTLYRDETIQYKG 60
Db 1 MHRLEFVYLLICANFCSCRDTSATPQASISAKLRNANLRDSENLDTLYRDETIQYKG 60
QY 61 NGYVSPRPNSYPNLLTWRLHSENTRIQLVFDNPGLEAENDICRYDFVEVEDIS 120
Db 61 NGYVSPRPNSYPNLLTWRLHSENTRIQLVFDNPGLEAENDICRYDFVEVEDIS 120
QY 121 ETSITIRGRCGHEVPPRIKSRNQIKTFKSDYFAKGGFKIYSLDEFOPAASE 180
Db 121 ETSITIRGRCGHEVPPRIKSRNQIKTFKSDYFAKGGFKIYSLDEFOPAASE 180
QY 181 TMSVTSISGVSINSPSVTPTLIADALDKIAEFTVDLKYFNPESMOEDLENNY 240
Db 181 TMSVTSISGVSINSPSVTPTLIADALDKIAEFTVDLKYFNPESMOEDLENNY 240
QY 241 LDTPRYGRSYHDKRSKYDLRLNDADAKRYSCPTPRNYSVNIREELKLANVFFPRCLLYQ 300
Db 241 LDTPRYGRSYHDKRSKYDLRLNDADAKRYSCPTPRNYSVNIREELKLANVFFPRCLLYQ 300
QY 301 RCGNCGCGTYNMWSCCTCNSGKTYKHYEVLQEPGHIKRRGRAKTALVDIQLDHHERC 360
Db 301 RCGNCGCGTYNMWSCCTCNSGKTYKHYEVLQEPGHIKRRGRAKTALVDIQLDHHERC 360
QY 361 DCICSSRPPR 370
Db 361 DCICSSRPPR 370

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RESULT 14

AAE15845
ID AAE15845 standard; Protein: 370 AA.

AC AAE15845;

DT 26-MAR-2002 (first entry)

DE Human LP85 mutant protein (N276D).

XX LP85; platelet-derived growth factor; PDGF; antiinflammatory; vulnery;
KW osteopathic; neuroprotective; tranquilliser; musculoskeletal disorder;
MSD; therapy; bone growth; cartilage differentiation; wound healing;
KW neuron growth; bone fracture; osteoporosis; osteopenia; arthritis;
KW sarcopenia; periodontal disease; tissue atrophy; endocrine disorder;
KW muscle loss; immobility; bone density; mutant; mutain.

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XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Misc-difference 276
XX FT /note= "Wild type Asn substituted with Asp"
XX PN W0200189450-A2.
XX PD 29-NOV-2001.
XX PE 08-MAY-2001; 2001WO-US11755.
XX PR 19-MAY-2000; 2000US-205424P.
XX PR 11-JAN-2001; 2001US-261071P.
XX PR 11-JAN-2001; 2001US-261076P.
XX PA (ELIL ) LILLY & CO ELI.
XX PI Beals JM, Gonzalez-Dewhitt PA, Hammond LJ, Lu J, Na S, Su EW;
XX PI Witcher DR, Wroblewski VJ;
XX DR WPI: 2002-083040/11.
XX PT Analog of a platelet-derived growth factor homolog, LP85 useful for
XX PT treating osteoporosis, arthritis, sarcopenia, wounds, has one or more
XX PT amino acid substitutions which destroy the tripeptidyl sequence of
XX PT native LP85
XX PS Claim 15b; Page -: 117pp; English.
XX CC The present invention relates to LP85, an analogue of platelet-derived
XX CC growth factor (PDGF) homologue. Sequences of the invention are useful
XX CC for the manufacture of a medicament for treating musculoskeletal disorder
XX CC (MSD) which include promoting bone growth, cartilage differentiation and
XX CC function, wound healing, neuron growth, preventing cartilage degradation
XX CC or neuronal degeneration. They are useful for treating bone fractures,
XX CC osteoporosis, sarcopenia, arthritis, sarcopenia, periodontal disease,
XX CC tissue atrophy, traumatised connective tissues, grafted connective
XX CC tissues and/or transplanted organs, bone or muscle loss due to
XX CC malignancy, endocrine disorders and immobility. They are also used
XX CC for prophylactically increasing or maintaining bone density in a
XX CC mammal. The present sequence is human LP85 mutant protein (N276D).
XX CC Note: This sequence is not shown in the specification but is derived
XX CC from human LP85 protein shown in pages 109-110 of the specification
XX CC (AAE15819).
XX SQ Sequence 370 AA;
XX
Query Match 99.7%; Score 1989; DB 23; Length 370;
Best Local Similarity 99.7%; Pred. No. 3,5e-188;
Matches 369; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHRLLFYTTILICAFNCSGCRDTSATPOSASIKALRNANLRDSEHMLDLYRDETIQYKG 60
DB 1 MHRLLFYTTILICAFNCSGCRDTSATPOSASIKALRNANLRDSEHMLDLYRDETIQYKG 60
QY 61 NGVQSPRPFPNSPYRNLLTWRLHSQENTRIQLVFNQFGLAEANDICRYFVEVEDIS 120
DB 61 NGVQSPRPFPNSPYRNLLTWRLHSQENTRIQLVFNQFGLAEANDICRYFVEVEDIS 120
QY 121 ETSITLIGRMCGHNEVPRIKSRNOKITFKSDYIPAKGFKIYISLDDFQPAASE 180
DB 121 ETSITLIGRMCGHNEVPRIKSRNOKITFKSDYIPAKGFKIYISLDDFQPAASE 180
QY 181 TNMSVTSISIGSVNSPVTDPDLADADPKTIAEPTVBDLLKTFNPEESOMEDLEMY 240
DB 181 TNMSVTSISIGSVNSPVTDPDLADADPKTIAEPTVBDLLKTFNPEESOMEDLEMY 240
QY 241 LDTFRYGRSYHDKRSKVDLRLNDADAKRYSCPTPNTSVNIREELKLANVVFPPCLLVQ 300
DB 241 LDTFRYGRSYHDKRSKVDLRLNDADAKRYSCPTPNTSVNIREELKLANVVFPPCLLVQ 300
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT Misc-difference 276
XX FT /note= "Wild type Asn substituted with Ser"
XX PN W0200189450-A2.
XX PD 29-NOV-2001.
XX PE 08-MAY-2001; 2001WO-US11755.
XX PR 19-MAY-2000; 2000US-205424P.
XX PR 11-JAN-2001; 2001US-261071P.
XX PR 11-JAN-2001; 2001US-261076P.
XX PA (ELIL ) LILLY & CO ELI.
XX PI Beals JM, Gonzalez-Dewhitt PA, Hammond LJ, Lu J, Na S, Su EW;
XX PI Witcher DR, Wroblewski VJ;
XX DR WPI: 2002-083040/11.
XX PT Analog of a platelet-derived growth factor homolog, LP85 useful for
XX PT treating osteoporosis, arthritis, sarcopenia, wounds, has one or more
XX PT amino acid substitutions which destroy the tripeptidyl sequence of
XX PT native LP85
XX PS Claim 15f; Page -: 117pp; English.
XX CC The present invention relates to LP85, an analogue of platelet-derived
XX CC growth factor (PDGF) homologue. Sequences of the invention are useful
XX CC for the manufacture of a medicament for treating musculoskeletal disorder
XX CC (MSD) which include promoting bone growth, cartilage differentiation and
XX CC function, wound healing, neuron growth, preventing cartilage degradation
XX CC or neuronal degeneration. They are useful for treating bone fractures,
XX CC osteoporosis, sarcopenia, arthritis, sarcopenia, periodontal disease,
XX CC tissue atrophy, traumatised connective tissues, grafted connective
XX CC tissues and/or transplanted organs, bone or muscle loss due to
XX CC malignancy, endocrine disorders and immobility. They are also used
XX CC for prophylactically increasing or maintaining bone density in a
XX CC mammal. The present sequence is human LP85 mutant protein (N276S).
XX CC Note: This sequence is not shown in the specification but is derived
XX CC from human LP85 protein shown in pages 109-110 of the specification
XX CC (AAE15819).

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xx Sequence 370 AA;

Query Match 99.7%; Score 1989; DB 23; Length 370;
Best Local Similarity 99.7%; Pred. No. 3.5e-188;
Matches 369; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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DB	1	MHRLIFVYTLICANFCSCDTSATFOSASIKALRNANLRRDSENNHLDLYRDEFTQVKG	60
QY	61	NGYVSPRPNSYPNNLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFVEVEDIS	120
DB	61	NGYVSPRPNSYPNNLLTWRLHSQENTRIQLVFNQFGLAEANDICRYDFVEVEDIS	120
QY	121	ETSTIIRGRCGCHKVPPRIKSRTOIKITFKSDYFVAKPGFKIYSLLEDFOPAASE	180
DB	121	ETSTIIRGRCGCHKVPPRIKSRTOIKITFKSDYFVAKPGFKIYSLLEDFOPAASE	180
QY	181	TNMEVTSISISGVSYNSPVTDPPTLIADALDKKIAEPTVEDLKYFNPESWQEDLENNY	240
DB	181	TNMEVTSISISGVSYNSPVTDPPTLIADALDKKIAEPTVEDLKYFNPESWQEDLENNY	240
QY	241	LDPFPRYGRSYHDKRSKYDLRLNDADAKRYSCTPRNSVNIREEELKIANVFFPRCLLYQ	300
DB	241	LDPFPRYGRSYHDKRSKYDLRLNDADAKRYSCTPRNSVNIREEELKIANVFFPRCLLYQ	300
QY	301	RCGNCGGGTNNMSCTCNSGKYAKYHEVLQFEFGHIKRRGAKTMALVDIQLDHHERC	360
DB	301	RCGNCGGGTNNMSCTCNSGKYAKYHEVLQFEFGHIKRRGAKTMALVDIQLDHHERC	360
QY	361	DCICSSRPPR 370	
DB	361	DCICSSRPPR 370	

Search completed: June 12, 2003, 15:29:58
Job time : 51 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 12, 2003, 15:28:35 ; Search time 26 Seconds
(Without alignments)
418.711 Million cell updates/sec

Title: US-09-662-783-2

Sequence: 1 MHRLLFYVTLICANFCSCRD.....DQLDHHRCDCICSSRPPR 370

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
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2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/1aa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1994	100.0	370	US-09-457-066-37	Sequence 37, Appl
2	1994	100.0	370	US-09-540-224-2	Sequence 2, Appl
3	1737	87.1	370	US-09-540-224-4	Sequence 4, Appl
4	752	37.7	345	US-09-457-066-43	Sequence 43, Appl
5	742.5	37.2	345	US-09-040-220D-2	Sequence 2, Appl
6	742.5	37.2	345	US-09-457-066-2	Sequence 2, Appl
7	742.5	37.2	345	US-09-265-686-2	Sequence 2, Appl
8	742.5	37.2	345	US-09-540-224-5	Sequence 5, Appl
9	187.5	9.4	788	US-08-572-225-1	Sequence 1, Appl
10	186.5	9.4	730	US-08-872-757-2	Sequence 2, Appl
11	180.5	9.1	101	US-09-374-135-6	Sequence 6, Appl
12	174.5	8.8	986	US-08-872-757-4	Sequence 4, Appl
13	172.5	8.7	591	US-08-991-408-4	Sequence 4, Appl
14	172.5	8.7	591	US-09-432-473-4	Sequence 4, Appl
15	172.5	8.7	1013	US-08-866-650-5	Sequence 5, Appl
16	172.5	8.7	1013	US-09-021-287-5	Sequence 5, Appl
17	172.5	8.7	1013	US-08-991-408-2	Sequence 2, Appl
18	172.5	8.7	1013	US-09-240-473-5	Sequence 5, Appl
19	172.5	8.7	1013	US-09-432-473-2	Sequence 2, Appl
20	167.5	8.4	103	US-09-374-135-5	Sequence 5, Appl
21	167	8.4	922	US-09-116-473-4	Sequence 4, Appl
22	166.5	8.4	1013	US-08-866-650-3	Sequence 3, Appl
23	166.5	8.4	1013	US-09-021-287-3	Sequence 3, Appl
24	166.5	8.4	1013	US-09-240-473-3	Sequence 3, Appl
25	164	8.2	923	US-08-936-135-6	Sequence 6, Appl
26	159	8.0	909	US-08-936-135-18	Sequence 18, Appl
27	159	8.0	926	US-08-936-135-20	Sequence 20, Appl

28	157	7.9	901	3	US-08-936-135-22	Sequence 22, Appl
29	157	7.9	906	3	US-08-936-135-24	Sequence 24, Appl
30	157	7.9	909	3	US-08-936-135-8	Sequence 8, Appl
31	157	7.9	909	3	US-08-936-135-10	Sequence 10, Appl
32	157	7.9	914	3	US-08-936-135-12	Sequence 12, Appl
33	157	7.9	925	4	US-09-116-473-2	Sequence 2, Appl
34	157	7.9	926	3	US-08-936-135-14	Sequence 14, Appl
35	157	7.9	931	3	US-08-936-135-16	Sequence 16, Appl
36	144	7.2	1785	4	US-09-341-587-3	Sequence 3, Appl
37	142	7.1	101	4	US-09-374-135-4	Sequence 4, Appl
38	138	6.9	25	4	US-09-540-224-8	Sequence 8, Appl
39	136.5	6.8	449	2	US-08-839-008-9	Sequence 9, Appl
40	135.5	6.8	102	4	US-09-374-135-7	Sequence 7, Appl
41	131	6.6	666	1	US-09-341-587-1	Sequence 1, Appl
42	130.5	6.5	401	2	US-08-839-008-5	Sequence 5, Appl
43	130.5	6.5	415	4	US-09-032-523-2	Sequence 2, Appl
44	130.5	6.5	449	2	US-08-839-008-2	Sequence 2, Appl
45	130.5	6.5	468	2	US-08-839-008-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-457-066-37
Sequence 37, Application US/09457066
Patent No. 6432673
GENERAL INFORMATION:
APPLICANT: Gao, Zhen
APPLICANT: Hart, Charles E.
APPLICANT: Piddington, Christopher S.
APPLICANT: Sheppard, Paul O.
APPLICANT: Shomaker, Kimberly E.
APPLICANT: Gilbertson, Debra G.
APPLICANT: West, James W.
TITLE OF INVENTION: GROWTH FACTOR HOMOLOGY ZVEGF3
FILE REFERENCE: 98-60
CURRENT APPLICATION NUMBER: US/09/457,066
CURRENT FILING DATE: 1999-12-07
NUMBER OF SEQ ID NOS: 50
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 37
LENGTH: 370
TYPE: PRT
ORGANISM: Homo sapiens
US-09-457-066-37

Query Match 100.0%; Score 1994; DB 4; Length 370;
Best local similarity 100.0%; Pred. No. 4.7e-198;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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1 MHRLLFYVTLICANFCSCROTSATPOSASIKALNNANIRDESMTLDYVRDETQYKG 60
DB 1 MHRLLFYVTLICANFCSCROTSATPOSASIKALNNANIRDESMTLDYVRDETQYKG 60
QY 61 NGYQSPREFPSPYRNLLTWRLHSENTRIQLVFNQFGLSEANDICRYDEVEDIS 120
61 NGYQSPREFPSPYRNLLTWRLHSENTRIQLVFNQFGLSEANDICRYDEVEDIS 120
DB 61 NGYQSPREFPSPYRNLLTWRLHSENTRIQLVFNQFGLSEANDICRYDEVEDIS 120
QY 121 ETSITIRGRCWGHKEVPRKSRNQIKITFKSDYFAVAKGFRIYYSLEDFOPAAASE 180
121 ETSITIRGRCWGHKEVPRKSRNQIKITFKSDYFAVAKGFRIYYSLEDFOPAAASE 180
DB 121 ETSITIRGRCWGHKEVPRKSRNQIKITFKSDYFAVAKGFRIYYSLEDFOPAAASE 180
QY 181 TNMESVYSSISGVNSVYDPLTADALDKTAIEDTVVDLTKYFNPESWQDLEMY 240
181 TNMESVYSSISGVNSVYDPLTADALDKTAIEDTVVDLTKYFNPESWQDLEMY 240
DB 181 TNMESVYSSISGVNSVYDPLTADALDKTAIEDTVVDLTKYFNPESWQDLEMY 240
QY 241 LDTFRYGRSVYHDKSKYVDLRLNDDAKRYSCPTPNTSVNREELKLANVFFPRCLLYQ 300
241 LDTFRYGRSVYHDKSKYVDLRLNDDAKRYSCPTPNTSVNREELKLANVFFPRCLLYQ 300
DB 241 LDTFRYGRSVYHDKSKYVDLRLNDDAKRYSCPTPNTSVNREELKLANVFFPRCLLYQ 300
QY 301 RCGNCGGTVMNSCTCNSGKTVKYYHEVLQEPFGHKKRGRAKTALVDIQLDHHERC 360
301 RCGNCGGTVMNSCTCNSGKTVKYYHEVLQEPFGHKKRGRAKTALVDIQLDHHERC 360

Db 301 RCGNCGCGTVMNRSTCTGNSGKTYKTHEVLOFEPGHKRRGAKTMAVDIQLDHHERC 360
 QY 361 DCICSSRPR 370
 Db 361 DCICSSRPR 370

RESULT 2
 US-09-540-224-2
 ; Sequence 2, Application US/09540224
 ; Patent No. 6468543
 ; GENERAL INFORMATION:
 ; APPLICANT: Gilbertson, Debra G.
 ; TITLE OF INVENTION: METHODS FOR PROMOTING GROWTH OF BONE,
 ; FILE REFERENCE: 00-28
 ; CURRENT APPLICATION NUMBER: US/09/540,224
 ; EARLIER FILING DATE: 2000-03-31
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 370
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-540-224-2

Query Match 100.0%; Score 1994; DB 4; Length 370;
 Best Local Similarity 100.0%; Pred. No. 4, 7e-198;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLIVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLDLYRDETIQVKG 60
 Db 1 MHRLIVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLDLYRDETIQVKG 60
 QY 61 NGVQSPRPNSYPRLNLLTWRLHSGENTRIQLVFNQFGLAEANDICRYDFVEVEDIS 120
 Db 61 NGVQSPRPNSYPRLNLLTWRLHSGENTRIQLVFNQFGLAEANDICRYDFVEVEDIS 120
 QY 121 ESTTIIRGRWCGHKEVPRIKSRNTQIKITFKSDDFVAKPGFKIYSLLEDPQPAASE 180
 Db 121 ESTTIIRGRWCGHKEVPRIKSRNTQIKITFKSDDFVAKPGFKIYSLLEDPQPAASE 180
 QY 181 TWNESTVSSISGYSVSPVTDPTLADALDKKIAEFVDEDLLKYFNESMOEDENMY 240
 Db 181 TWNESTVSSISGYSVSPVTDPTLADALDKKIAEFVDEDLLKYFNESMOEDENMY 240
 QY 241 LDTPRYGRSYHDKRSKVDLRLNDAKRYSCPRNYSVINREELKLANVFFPRCLLYQ 300
 Db 241 LDTPRYGRSYHDKRSKVDLRLNDAKRYSCPRNYSVINREELKLANVFFPRCLLYQ 300
 QY 301 RCGNCGCGTVMNRSTCTGNSGKTYKTHEVLOFEPGHKRRGAKTMAVDIQLDHHERC 360
 Db 301 RCGNCGCGTVMNRSTCTGNSGKTYKTHEVLOFEPGHKRRGAKTMAVDIQLDHHERC 360
 QY 361 DCICSSRPR 370
 Db 361 DCICSSRPR 370

RESULT 3
 US-09-540-224-4
 ; Sequence 4, Application US/09540224
 ; Patent No. 6468543
 ; GENERAL INFORMATION:
 ; APPLICANT: Gilbertson, Debra G.
 ; TITLE OF INVENTION: METHODS FOR PROMOTING GROWTH OF BONE,
 ; FILE REFERENCE: 00-28
 ; CURRENT APPLICATION NUMBER: US/09/540,224

; CURRENT FILING DATE: 2000-03-31
 ; EARLIER APPLICATION NUMBER: US 60/180,169
 ; EARLIER FILING DATE: 2000-02-04
 ; NUMBER OF SEQ ID NOS: 9
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 370
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-540-224-4

Query Match 87.1%; Score 1737; DB 4; Length 370;
 Best Local Similarity 85.1%; Pred. No. 2e-171;
 Matches 315; Conservative 25; Mismatches 30; Indels 0; Gaps 0;

QY 1 MHRLIVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLDLYRDETIQVKG 60
 Db 1 MHRLIVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLDLYRDETIQVKG 60
 QY 61 NGVQSPRPNSYPRLNLLTWRLHSGENTRIQLVFNQFGLAEANDICRYDFVEVEDIS 120
 Db 61 NGVQSPRPNSYPRLNLLTWRLHSGENTRIQLVFNQFGLAEANDICRYDFVEVEDIS 120
 QY 121 ESTTIIRGRWCGHKEVPRIKSRNTQIKITFKSDDFVAKPGFKIYSLLEDPQPAASE 180
 Db 121 ESTTIIRGRWCGHKEVPRIKSRNTQIKITFKSDDFVAKPGFKIYSLLEDPQPAASE 180
 QY 181 TWNESTVSSISGYSVSPVTDPTLADALDKKIAEFVDEDLLKYFNESMOEDENMY 240
 Db 181 TWNESTVSSISGYSVSPVTDPTLADALDKKIAEFVDEDLLKYFNESMOEDENMY 240
 QY 241 LDTPRYGRSYHDKRSKVDLRLNDAKRYSCPRNYSVINREELKLANVFFPRCLLYQ 300
 Db 241 LDTPRYGRSYHDKRSKVDLRLNDAKRYSCPRNYSVINREELKLANVFFPRCLLYQ 300
 QY 301 RCGNCGCGTVMNRSTCTGNSGKTYKTHEVLOFEPGHKRRGAKTMAVDIQLDHHERC 360
 Db 301 RCGNCGCGTVMNRSTCTGNSGKTYKTHEVLOFEPGHKRRGAKTMAVDIQLDHHERC 360
 QY 361 DCICSSRPR 370
 Db 361 DCICSSRPR 370

RESULT 4
 US-09-457-066-43
 ; Sequence 43, Application US/09457066
 ; Patent No. 6432673
 ; GENERAL INFORMATION:
 ; APPLICANT: Gao, Zeren
 ; APPLICANT: Hart, Charles E.
 ; APPLICANT: Piddington, Christopher S.
 ; APPLICANT: Sheppard, Paul O.
 ; APPLICANT: Shoemaker, Kimberly E.
 ; APPLICANT: Gilbertson, Debra G.
 ; TITLE OF INVENTION: GROWTH FACTOR HOMOLOG 2VEGF3
 ; FILE REFERENCE: 98-60
 ; CURRENT APPLICATION NUMBER: US/09/457,066
 ; CURRENT FILING DATE: 1999-12-07
 ; NUMBER OF SEQ ID NOS: 50
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 43
 ; LENGTH: 345
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-457-066-43

Query Match 37.7%; Score 752; DB 4; Length 345;
 Best Local Similarity 45.3%; Pred. No. 1.8e-69;
 Matches 148; Conservative 59; Mismatches 92; Indels 28; Gaps 9;

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Db      37 EQNGVOD-PHREVRVYISNGSISHPKFPHYPRNVLVLRVAVDENVRQLQLEFDERFG 95
Qy      101 LEEKENDICRYDPEVEVDISETSTIIRGRCGKEVPRPKISRTNOKITFKSDIYVAK 160
Db      96 LEEPEDICRYDPEVEVEPSGSVL--GRMGSGSTVGKQTSKGNHIRIRFVDEYEPSE 153
Qy      161 PGFKIYSLLEDDPOPAASETNMESVTSISGVSNSPSVTDPTLADALDKIAEDFT 219
Db      154 PGFCIHSTI--MPQYETTT-----SPVLPPSSLSLDLNNAVTAFST 195
Qy      220 VEDLLKYNPESQEDLENNYLDTPRYGRSY-HDRKSK-VLDRLNDAKRYSCTPRNY 277
Db      196 LEEILRYLEPDRMQVDLSLYKPTWQLGKAFYIGKSKSVNMLLKEEYKYSCTPRNF 255
Qy      278 SVNIRELKLANYVEFFRCILLYORCGNGCGGVNMSCTCNSKTYKTHVYQFEPBGH 337
Db      256 SVSIREELKRDITFWPGCLLYKRCGNCACCLHNCNCCVPRKTYKTHVYQLRPP-- 313
Qy      338 IKRRGAKTMAVDIQLDHHERCDCIC 364
Db      314 -KIGVKGKLSLTDVVALEHHECVC 339
```

```
RESULT 5
US-09-040-220D-2
; Sequence 2, Application US/09040220D
; Patent No. 6391311
; GENERAL INFORMATION:
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Kuo, Sophia S.
; TITLE OF INVENTION: NOVEL POLYPEPTIDES HAVING HOMOLOGY TO VASCULAR
; TITLE OF INVENTION: ENDOCELLULAR CELL GROWTH FACTOR AND BONE MORPHOGENETIC
; TITLE OF INVENTION: PROTEIN 1 AND NUCLEIC ACIDS ENCODING SAME, THEIR USES,
; FILE REFERENCE: P1122
; CURRENT APPLICATION NUMBER: US/09/040, 220D
; CURRENT FILING DATE: 1998-03-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Human
US-09-040-220D-2
```

Query Match 37.2%; Score 742.5; DB 4; Length 345;
Best Local Similarity 43.6%; Pred. No. 1.8e-68;
Matches 159; Conservative 59; Mismatches 114; Indels 33; Gaps 10;

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Qy      5 IFVYLLICANFCSCROTSATPQASIKALRNANLRDESNHLTDLYRDETIOYKNGYV 64
Db      3 LFGILLITSLAGOROGTOAESNLSSKFQSSN--KEQNGVOD-POHERITVSTNGSI 58
Qy      65 QSPRFPNSYPRNLLITWRKLS-QENTRIQLVFNQFGLSEANDICRYDEVEDISETS 123
Db      59 HSPRPPTYPRNTLVWMLVAVEENWVQLTFDERFGLDEDEDICRYDEVEVEPSDGT 118
Qy      124 TIIRGRCGKEVPRPKISRTNOKITFKSDIYVAKPGFKIYSL-LEDFOPAASETN 182
Db      119 --ILGRMGSGSTVGKQTSKGNQIRIRFVSEYEPSEPGFCIHYNIVAPQTEAV---- 171
Qy      183 WESTSSISGVSNSPSVTDPTLADALDKIAEDFTVEDLLKYNPESQEDLENNYL 241
Db      172 -----SPVLPPSSLSLDLNNAVTAFSTLEEDLIRYLEPERWQLDELDLYR 217
Qy      242 DTPRYGRSY-HDRKSK-VLDRLNDAKRYSCTPRNYSVIRELKLANYVEFFRCILY 299
Db      218 PTWQLGKAFYIGKSKSVNMLLKEEYKYSCTPRNYSVIRELKRDTDTIIPPGCLLY 277
Qy      300 QRCGNGCGGVNMRSGTCSNGKTYKTHVYQFEPGHIRGRGAKTMAVDIQLDHHR 359
Db      278 KRCGNCACCLHNCNCCVPRKTYKTHVYQLRPP--KIGVKGKLSLTDVVALEHHEE 334
```

```
Qy      360 CDCIC 364
Db      335 CDCVC 339
```

```
RESULT 6
US-09-457-066-2
; Sequence 2, Application US/09457066
; Patent No. 6432673
; GENERAL INFORMATION:
; APPLICANT: Gao, Zeren
; APPLICANT: Hart, Charles E.
; APPLICANT: Piddington, Christopher S.
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Shoemaker, Kimberly E.
; APPLICANT: Gilbertson, Debra G.
; TITLE OF INVENTION: GROWTH FACTOR HOMOLOGY ZVEGF3
; FILE REFERENCE: 98-60
; CURRENT APPLICATION NUMBER: US/09/457, 066
; CURRENT FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 345
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-457-066-2
```

Query Match 37.2%; Score 742.5; DB 4; Length 345;
Best Local Similarity 43.6%; Pred. No. 1.8e-68;
Matches 159; Conservative 59; Mismatches 114; Indels 33; Gaps 10;

```
Qy      5 IFVYLLICANFCSCROTSATPQASIKALRNANLRDESNHLTDLYRDETIOYKNGYV 64
Db      3 LFGILLITSLAGOROGTOAESNLSSKFQSSN--KEQNGVOD-POHERITVSTNGSI 58
Qy      65 QSPRFPNSYPRNLLITWRKLS-QENTRIQLVFNQFGLSEANDICRYDEVEDISETS 123
Db      59 HSPRPPTYPRNTLVWMLVAVEENWVQLTFDERFGLDEDEDICRYDEVEVEPSDGT 118
Qy      124 TIIRGRCGKEVPRPKISRTNOKITFKSDIYVAKPGFKIYSL-LEDFOPAASETN 182
Db      119 --ILGRMGSGSTVGKQTSKGNQIRIRFVSEYEPSEPGFCIHYNIVAPQTEAV---- 171
Qy      183 WESTSSISGVSNSPSVTDPTLADALDKIAEDFTVEDLLKYNPESQEDLENNYL 241
Db      172 -----SPVLPPSSLSLDLNNAVTAFSTLEEDLIRYLEPERWQLDELDLYR 217
Qy      242 DTPRYGRSY-HDRKSK-VLDRLNDAKRYSCTPRNYSVIRELKLANYVEFFRCILY 299
Db      218 PTWQLGKAFYIGKSKSVNMLLKEEYKYSCTPRNYSVIRELKRDTDTIIPPGCLLY 277
Qy      300 QRCGNGCGGVNMRSGTCSNGKTYKTHVYQFEPGHIRGRGAKTMAVDIQLDHHR 359
Db      278 KRCGNCACCLHNCNCCVPRKTYKTHVYQLRPP--KIGVKGKLSLTDVVALEHHEE 334
Qy      360 CDCIC 364
Db      335 CDCVC 339
```

```
RESULT 7
US-09-265-686-2
; Sequence 2, Application US/09265686
; Patent No. 6455283
; GENERAL INFORMATION:
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Kuo, Sophia S.
; TITLE OF INVENTION: POLYPEPTIDES HOMOLOGOUS TO VEGF AND BMP1
; FILE REFERENCE: P1122P2
; CURRENT APPLICATION NUMBER: US/09/265, 686
; CURRENT FILING DATE: 1999-03-10
```


PRIOR APPLICATION NUMBER: US 09/040,220
PRIOR FILING DATE: 1998-03-17
PRIOR APPLICATION NUMBER: US 09/184,216
PRIOR FILING DATE: 1998-11-02
NUMBER OF SEQ ID NOS: 8
SEQ ID NO 2
LENGTH: 345
TYPE: PRT
ORGANISM: Human
US-09-265-686-2

Query Match 37.2%; Score 742.5; DB 4; Length 345;
Best Local Similarity 43.6%; Pred. No. 1.8e-68;
Matches 159; Conservative 59; Mismatches 114; Indels 33; Gaps 10;

QY 5 IFVYTLICANFCSCRPTSATPOSASIKALNANLNRDESNHLDLVRDEFTIOYKNGYV 64
DB 3 LFEULLITSLAOGROGTOAESNLSSKFOFSSN---KEONGVOD-POHERITIVSTNGSI 58
QY 65 QSPRFPNSYPRNLLTWRLHS-OENRRIQLVFNQGLFEAENDICRYDEVEEDISETS 123
DB 59 HSPRFPHTYPRNTVLVWRLVAEENWVQLTDFERFGLDEPDIDCKYDEVEEEDSDGT 118
QY 124 TIRGRMGCHKEVPPRIKSTNOIKTFKSDDYFVAKPGFKIYSL-LEDFQPAASETN 182
DB 119 --ILGRMGCGTVPGRKQISGNQIRIFVSDYFSPSPGFCIHYNVMPQTEAV----- 171
QY 183 WESVTSISGSVNSPSTVDPDT-LIADALDKIAEFDVYDLKYPNESMODLEMYL 241
DB 172 -----SPSVLPSPALPLDLNNAITASTLEDLIRYLEPERMQLDEDLR 217
QY 242 DTPRYGRSY-HDRKSK-VDLRLNDAKRYCTPRNYSVNIKEELKLANVFEPRCLIV 299
DB 218 PTMQLGKAFVFGKRSYVDNLNLTBEVRLSCTPRNFSVIREELKRTDTIWPGLIV 277
QY 300 QRCGNCGGCTVWNRSCOTNSGKTVKKYHEVLOFEPGHIRKRRATMALVYDQLDHER 359
DB 278 KRCGNCACCLHNCNEOCVPSKVTYKRYHEVQLRP---KTGVGRGLHKSITDVALEHHEE 334
QY 360 CDCVC 364
DB 335 CDCVC 339

RESULT 8
US-09-540-224-5
Sequence 5, Application US/09540224
Patent No. 6468543
GENERAL INFORMATION:
APPLICANT: Gilbertson, Debra G.
APPLICANT: Hart, Charles E.
TITLE OF INVENTION: METHODS FOR PROMOTING GROWTH OF BONE,
FILE REFERENCE: 00-28
CURRENT APPLICATION NUMBER: US/09/540,224
CURRENT FILING DATE: 2000-03-31
EARLIER APPLICATION NUMBER: US 60/180,169
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5
LENGTH: 345
TYPE: PRT
ORGANISM: Homo sapiens
US-09-540-224-5

Query Match 37.2%; Score 742.5; DB 4; Length 345;
Best Local Similarity 43.6%; Pred. No. 1.8e-68;
Matches 159; Conservative 59; Mismatches 114; Indels 33; Gaps 10;

QY 5 IFVYTLICANFCSCRPTSATPOSASIKALNANLNRDESNHLDLVRDEFTIOYKNGYV 64
DB 3 LFEULLITSLAOGROGTOAESNLSSKFOFSSN---KEONGVOD-POHERITIVSTNGSI 58

QY 65 QSPRFPNSYPRNLLTWRLHS-OENRRIQLVFNQGLFEAENDICRYDEVEEDISETS 123
DB 59 HSPRFPHTYPRNTVLVWRLVAEENWVQLTDFERFGLDEPDIDCKYDEVEEEDSDGT 118
QY 124 TIRGRMGCHKEVPPRIKSTNOIKTFKSDDYFVAKPGFKIYSL-LEDFQPAASETN 182
DB 119 --ILGRMGCGTVPGRKQISGNQIRIFVSDYFSPSPGFCIHYNVMPQTEAV----- 171
QY 183 WESVTSISGSVNSPSTVDPDT-LIADALDKIAEFDVYDLKYPNESMODLEMYL 241
DB 172 -----SPSVLPSPALPLDLNNAITASTLEDLIRYLEPERMQLDEDLR 217
QY 242 DTPRYGRSY-HDRKSK-VDLRLNDAKRYCTPRNYSVNIKEELKLANVFEPRCLIV 299
DB 218 PTMQLGKAFVFGKRSYVDNLNLTBEVRLSCTPRNFSVIREELKRTDTIWPGLIV 277
QY 300 QRCGNCGGCTVWNRSCOTNSGKTVKKYHEVLOFEPGHIRKRRATMALVYDQLDHER 359
DB 278 KRCGNCACCLHNCNEOCVPSKVTYKRYHEVQLRP---KTGVGRGLHKSITDVALEHHEE 334
QY 360 CDCVC 364
DB 335 CDCVC 339

RESULT 9
US-08-572-225-1
Sequence 1, Application US/08572225
Patent No. 5807981
GENERAL INFORMATION:
APPLICANT: Prockop, Darwin J.
APPLICANT: Hojima, Yoshio
APPLICANT: Li, Shi-Yu
APPLICANT: Stieron, Alexander
APPLICANT: Brenner, Mitch
TITLE OF INVENTION: RECOMBINANT C-PROTEINASE AND ITS USE FOR
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: Penile & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/572,225
FILING DATE: 13-DEC-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8389-031
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
TELEFAX: 415-854-3694
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 788 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-572-225-1

Query Match 9.4%; Score 187.5; DB 1; Length 788;

Best Local Similarity 39.4%; Pred. No. 2e-10;
Matches 43; Conservative 18; Mismatches 43; Indels 5; Gaps 3;

OY 59 KGNQVSPRPNSYPNNLLTWRHLSQENTRIQLVFDNPGLEAEANDICRYFVEVED 118
DB 399 KLNQSTSPGPKPEYPPKNCIMQLVAPQYRISLQPD---FFETEGNDVCKYDFVEVRS 455
OY 119 ISESTIRGRCGKHEVPPRIKSRTOIKITFKSDDYFAKPGFKIY 167
DB 456 GLTADSKLHGKFCG-SEKPEVITTSQYNNMRYEFSKSDN-TVSKKGFKAHF 502

RESULT 10

US-08-872-757-2
Sequence 2, Application US/08872757
Patent No. 6258584
GENERAL INFORMATION:
APPLICANT: Prockop, Darwin J.
APPLICANT: Hojima, Yoshio
APPLICANT: Li, Shi-Wu
APPLICANT: Steron, Aleksander
TITLE OF INVENTION: RECOMBINANT C-PROTEINASE AND
TITLE OF INVENTION: PROCESSES; METHODS AND USES THEREOF
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/872,757
FILING DATE: 10-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/609,187
FILING DATE: 01-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8389-028-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
TELEFAX: 415-854-3694
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 730 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-872-757-2

Query Match 9.4%; Score 186.5; DB 4; Length 730;
Best Local Similarity 39.4%; Pred. No. 2.3e-10;
Matches 43; Conservative 18; Mismatches 43; Indels 5; Gaps 3;

OY 59 KGNQVSPRPNSYPNNLLTWRHLSQENTRIQLVFDNPGLEAEANDICRYFVEVED 118
DB 597 KLNQSTSPGPKPEYPPKNCIMQLVAPQYRISLQPD---FFETEGNDVCKYDFVEVRS 653
OY 119 ISESTIRGRCGKHEVPPRIKSRTOIKITFKSDDYFAKPGFKIY 167
DB 654 GLTADSKLHGKFCG-SEKPEVITTSQYNNMRYEFSKSDN-TVSKKGFKAHF 700

RESULT 11

US-09-374-135-6
Sequence 6, Application US/09374135
Patent No. 6277972

GENERAL INFORMATION:
APPLICANT: Afari, Daniel E.
APPLICANT: Hubert, Rene S.
APPLICANT: Leong, Kahan
APPLICANT: Raitano, Arthur B.
APPLICANT: Saffran, Douglas C.
APPLICANT: Jakobovits, Aya
TITLE OF INVENTION: BPC-1: A SECRETED BRAIN-SPECIFIC PROTEIN EXPRESSED AND
TITLE OF INVENTION: SECRETED BY PROSTATE AND BLADDER CANCER CELLS
FILE REFERENCE: 1703-017.US1
CURRENT APPLICATION NUMBER: US/09/374,135
CURRENT FILING DATE: 1999-08-10
PRIOR FILING DATE: 1998-08-10
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 101
TYPE: PRT
ORGANISM: Mouse
US-09-374-135-6

Query Match 9.1%; Score 180.5; DB 4; Length 101;
Best Local Similarity 38.7%; Pred. No. 4e-11;
Matches 41; Conservative 18; Mismatches 42; Indels 5; Gaps 3;

OY 62 GYVSPRPNSYPNNLLTWRHLSQENTRIQLVFDNPGLEAEANDICRYFVEVEDISE 121
DB 1 GSITSPGPKPEYPPKNCIMQLVAPQYRISLQPD---FFETEGNDVCKYDFVEVRSGLT 57
OY 122 TSTIRGRCGKHEVPPRIKSRTOIKITFKSDDYFAKPGFKIY 167
DB 58 ADSKLHGKFCG-SEKPEVITTSQYNNMRYEFSKSDN-TVSKKGFKAHF 101

RESULT 12

US-08-872-757-4
Sequence 4, Application US/08872757
Patent No. 6258584
GENERAL INFORMATION:
APPLICANT: Prockop, Darwin J.
APPLICANT: Hojima, Yoshio
APPLICANT: Li, Shi-Wu
APPLICANT: Steron, Aleksander
TITLE OF INVENTION: RECOMBINANT C-PROTEINASE AND
TITLE OF INVENTION: PROCESSES; METHODS AND USES THEREOF
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/872,757
FILING DATE: 10-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/609,187
FILING DATE: 01-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8389-028-999

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
TELEFAX: 415-854-3694
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 986 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-872-757-4

Query Match 8.8%; Score 174.5; DB 4; Length 986;
Best Local Similarity 37.6%; Pred. No. 6.5e-09;
Matches 41; Conservative 18; Mismatches 45; Indels 5; Gaps 3;

QY 59 KGNQVQSPRPSPYRNLLITRLHSGENTRIQLVDFDNOFGLEAENDICRDEYVED 118
DB 597 KLNQGISRGWPEYEPNKNKCIQVAPTOYRISLQFD---FFETEGNDYCKIDFEYVRS 653
QY 119 ISETSTIRGRCWGHKEVPPRIKSRNQIKITFKSDDYFAKPGFKIYY 167
DB 654 GLTADSKLHGKFCG-SEKPEVITSQYNNMVEFEKSDN-TVSKKGKFAHF 700

RESULT 13
US-08-991-408-4
Sequence 4, Application US/08991408
Patent No. 6008017
GENERAL INFORMATION:
APPLICANT: ARLETH, ANTHONY J.
APPLICANT: WILLETTTE, ROBERT N.
APPLICANT: ELSHOURBAGY, NABIL A.
APPLICANT: LI, XIAOTONG
TITLE OF INVENTION: HUMAN CARDIAC/BRAIN TOLLDOID-LIKE
TITLE OF INVENTION: PROTEIN
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATNER & PRESTIA
STREET: P.O. BOX 980
CITY: VALLEY FORGE
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/991,408
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/034,471
FILING DATE: 02-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: ATG-50038
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 591 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-991-408-4

Query Match 8.7%; Score 172.5; DB 3; Length 591;
Best Local Similarity 36.7%; Pred. No. 4.6e-09;
Matches 40; Conservative 25; Mismatches 39; Indels 5; Gaps 4;

QY 59 KGNQVQSPRPSPYRNLLITRLHSGENTRIQLVDFDNOFGLEAENDICRDEYVED 118
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QY 119 ISETSTIRGRCWGHKEVPPRIKSRNQIKITFKSDDYFAKPGFKIYY 167
DB 259 GLSESKLHGKFCG-AEVEVITSQYNNMVEFEKSDN-TVSKKGKFAHF 305

RESULT 14
US-09-432-473-4
Sequence 4, Application US/09432473
Patent No. 6365715
GENERAL INFORMATION:
APPLICANT: ARLETH, ANTHONY J.
APPLICANT: WILLETTTE, ROBERT N.
APPLICANT: ELSHOURBAGY, NABIL A.
APPLICANT: LI, XIAOTONG
TITLE OF INVENTION: HUMAN CARDIAC/BRAIN TOLLDOID-LIKE PROTEIN
FILE REFERENCE: ATG-50038-D1
CURRENT APPLICATION NUMBER: US/09/432,473
CURRENT FILING DATE: 1999-11-01
EARLIER APPLICATION NUMBER: 08/991,408
EARLIER FILING DATE: 1997-12-16
EARLIER APPLICATION NUMBER: 60/034,471
EARLIER FILING DATE: 1997-01-02
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 4
LENGTH: 591
TYPE: PRT
ORGANISM: HOMO SAPIENS
US-09-432-473-4

Query Match 8.7%; Score 172.5; DB 4; Length 591;
Best Local Similarity 36.7%; Pred. No. 4.6e-09;
Matches 40; Conservative 25; Mismatches 39; Indels 5; Gaps 4;

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QY 119 ISETSTIRGRCWGHKEVPPRIKSRNQIKITFKSDDYFAKPGFKIYY 167
DB 259 GLSESKLHGKFCG-AEVEVITSQYNNMVEFEKSDN-TVSKKGKFAHF 305

RESULT 15
US-08-866-650-5
Sequence 5, Application US/08866650
Patent No. 5938321
GENERAL INFORMATION:
APPLICANT: Greenspan, Daniel S
APPLICANT: Takahara, Kazuhiko
APPLICANT: Hoffman, Guy G
TITLE OF INVENTION: Mammalian Tollold-Like Protein
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pluckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53703
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 12, 2003, 15:32:31 ; Search time 22 Seconds

(without alignments)
1736.314 Million cell updates/sec

Title: US-09-662-783-2

Perfect score: 1994

Sequence: 1 MHRILFYVTLICANFCSCRD.....DIQLDHERCDICSSNPR 370

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 392085

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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1	1994	100.0	370	9 US-10-086-623-8	Sequence 8, Appl
2	1994	100.0	370	9 US-10-139-583-37	Sequence 37, Appl
3	1994	100.0	370	9 US-10-039-847A-2	Sequence 2, Appl
4	1994	100.0	370	9 US-10-260-539-8	Sequence 8, Appl
5	1994	100.0	370	9 US-10-258-557-2	Sequence 5, Appl
6	1994	100.0	370	10 US-09-823-033-5	Sequence 2, Appl
7	1994	100.0	370	10 US-09-808-972-2	Sequence 5, Appl
8	1994	100.0	370	10 US-09-915-582-56	Sequence 56, Appl
9	1994	100.0	370	10 US-09-915-582-74	Sequence 74, Appl
10	1988	99.7	364	9 US-10-028-072-186	Sequence 186, App
11	1949	97.7	364	9 US-10-121-049-186	Sequence 186, App
12	1949	97.7	364	9 US-10-123-904-186	Sequence 186, App
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15	1949	97.7	364	9 US-10-176-918-186	Sequence 186, App
16	1949	97.7	364	9 US-10-176-921-186	Sequence 186, App
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43	1949	97.7	364	9 US-10-121-047-186	Sequence 186, App
44	1949	97.7	364	9 US-10-123-215-186	Sequence 186, App
45	1949	97.7	364	9 US-10-123-902-186	Sequence 186, App

ALIGNMENTS

RESULT 1
US-10-086-623-8
Sequence 8, Application US/10086623
Patent No. US20020164710A1
GENERAL INFORMATION:
APPLICANT: ERIKSSON, Ulf
APPLICANT: MASE, Karin
APPLICANT: LI, Xuri
APPLICANT: FONTEN, Annica
APPLICANT: UTELEA, Marko
APPLICANT: ALITALO, Karl
APPLICANT: OESTMAN, Arne
APPLICANT: HELDIN, Carl-Henrik
TITLE OR INVENTION: PLATELET DERIVED GROWTH FACTOR D, DNA CODING THEREFOR AND USES
FILE REFERENCE: 1064/44833C2
CURRENT APPLICATION NUMBER: US/10/086, 623
CURRENT FILING DATE: 2000-03-04
PRIOR APPLICATION NUMBER: US 60/107, 852
PRIOR FILING DATE: 1998-11-10
PRIOR APPLICATION NUMBER: US 60/113, 997
PRIOR FILING DATE: 1998-12-28
PRIOR APPLICATION NUMBER: US 60/150, 604
PRIOR FILING DATE: 1999-08-26
PRIOR APPLICATION NUMBER: US 60/157, 108
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: US 60/157, 756
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: US 09/438, 046
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: US 09/691, 200
PRIOR FILING DATE: 2000-10-19
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn version 3.1
SEQ ID NO 8
LENGTH: 370
TYPE: PRT
ORGANISM: Homo sapiens
US-10-086-623-8
Query Match 100.0%; Score 1994; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 NGVOSPREPNSPRLNLLTWRLHSEENRIQVLFNQGLEAENDICRYDEVEDIS 120
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QY 301 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIKRGRAKTMALVDIOLDHHERC 360
DB 301 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIKRGRAKTMALVDIOLDHHERC 360
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RESULT 2

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US-10-139-583-37
; Sequence 37, Application US/10139583
; Patent No. US20020177193A1
; GENERAL INFORMATION:
; APPLICANT: Gao, Zeren
; APPLICANT: Hart, Charles E.
; APPLICANT: Piddington, Christopher S.
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Shoemaker, Kimberly E.
; APPLICANT: Gilbertson, Debra G.
; APPLICANT: West, James W.
; TITLE OF INVENTION: GROWTH FACTOR HOMOLOG ZVEG33
; FILE REFERENCE: 98-60
; CURRENT APPLICATION NUMBER: US/10/139,583
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: 09/457,066
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-139-583-37

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Query Match 100.0%; Score 1994; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-10-039-847A-2
; Sequence 2, Application US/10039847A
; Publication No. US20020183273A1
; GENERAL INFORMATION:
; APPLICANT: Hart, Charles E.
; APPLICANT: Popouzis, Stavros
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IMPROVING
; FILE REFERENCE: 00-100
; CURRENT APPLICATION NUMBER: US/10/039,847A
; PRIOR FILING DATE: 2002-06-17
; PRIOR APPLICATION NUMBER: US 60/244,479
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-039-847A-2

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Query Match 100.0%; Score 1994; DB 9; Length 370;
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DB 241 LDPFRYGRSYHDKRSKVLDRLNDADAKRSCPTPRNYSVINIRELKIANYVFFPCLLVQ 300
QY 301 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIKRGRAKTMALVDIOLDHHERC 360
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DB 361 DCICSSRPPR 370

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RESULT 4

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Sequence 8, Application US/10260539
: Publication No. US20030073637A1
: GENERAL INFORMATION:
: APPLICANT: ERIKSSON, Ulf
: APPLICANT: AASE, Karin
: APPLICANT: LI, Xuri
: APPLICANT: PONTEN, Annica
: APPLICANT: UUTELA, Marko
: APPLICANT: ALITALO, Karl
: APPLICANT: OESTMAN, Arne
: APPLICANT: HELDIN, Carl-Henrik
: TITLE OF INVENTION: PLATELET DERIVED GROWTH FACTOR D, DNA CODING THEREFOR AND USES TH
: FILE REFERENCE: 1064/44833C2
: CURRENT APPLICATION NUMBER: US/10/260,539
: CURRENT FILING DATE: 2002-10-01
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: PRIOR FILING DATE: 2000-03-04
: PRIOR APPLICATION NUMBER: US 60/107,852
: PRIOR FILING DATE: 1998-11-10
: PRIOR APPLICATION NUMBER: US 60/113,997
: PRIOR FILING DATE: 1998-12-28
: PRIOR APPLICATION NUMBER: US 60/150,604
: PRIOR FILING DATE: 1999-08-26
: PRIOR APPLICATION NUMBER: US 60/157,108
: PRIOR FILING DATE: 1999-10-04
: PRIOR APPLICATION NUMBER: US 60/157,756
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: US 09/438,046
: PRIOR FILING DATE: 1999-11-10
: PRIOR APPLICATION NUMBER: US 09/691,200
: PRIOR FILING DATE: 2000-10-19
: NUMBER OF SEQ ID NOS: 42
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: ORGANISM: Homo sapiens
US-10-260-539-8

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DB 241 LDPFRYGRSYHDKRSKYDLDRLNDADAKRYSCPTPRNSVNIREEIKLANVFFPCLLYQ 300
QY 301 RCGNCGCGTVNMRSCTCNSGKTYKKEVLOFEPGHIKRGRAKTMAVLDIQLDHERC 360
DB 301 RCGNCGCGTVNMRSCTCNSGKTYKKEVLOFEPGHIKRGRAKTMAVLDIQLDHERC 360
QY 361 DCICSSRPR 370
DB 361 DCICSSRPR 370

RESULT 5
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US-10-264-361-5
: Sequence 5, Application US/10264361
: Publication No. US20030087870A1
: GENERAL INFORMATION:
: APPLICANT: GILBERTSON, Debra G.
: TITLE OF INVENTION: METHOD OF TREATING FIBROSIS
: FILE REFERENCE: 00-53
: CURRENT APPLICATION NUMBER: US/10/264,361
: CURRENT FILING DATE: 2002-10-03
: PRIOR APPLICATION NUMBER: US/09/695,121
: PRIOR FILING DATE: 2000-10-23
: NUMBER OF SEQ ID NOS: 18
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 5
: LENGTH: 370
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-264-361-5

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Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 241 LDPFRYGRSYHDKRSKYDLDRLNDADAKRYSCPTPRNSVNIREEIKLANVFFPCLLYQ 300
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DB 361 DCICSSRPR 370

RESULT 6
US-10-258-557-2
: Sequence 2, Application US/10258557
: Publication No. US20030100502A1
: GENERAL INFORMATION:
: APPLICANT: BEALS, John
: APPLICANT: GONZALEZ-DEMILLT, Patricia
: APPLICANT: HAMMOND, Lisa
: APPLICANT: LU, Jitong
: APPLICANT: NA, Songqing
: APPLICANT: SU, Eric
: APPLICANT: WITCHER, Derrick
: TITLE OF INVENTION: TREATING MUSCULOSKELETAL DISORDERS USING LP85 AND ANALOGS TH
: FILE REFERENCE: X-14392M
: CURRENT APPLICATION NUMBER: US/10/258,557
: CURRENT FILING DATE: 2002-10-23
: NUMBER OF SEQ ID NOS: 6
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 2
: LENGTH: 370
: TYPE: PRT
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ORGANISM: Homo sapiens
US-10-258-557-2

Query Match 100.0%; Score 1994; DB 9; Length 370;
Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
DB 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
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QY 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
DB 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
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DB 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240
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DB 241 LDPPIRGSRSYHDKRSKVDLDRINDAKRISCTPRNYSVINIRELKLAVVFFPRCLLYQ 300
QY 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360
DB 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360
QY 361 DCICSSRPPR 370
DB 361 DCICSSRPPR 370

RESULT 7

US-09-823-033-5
Sequence 5, Application US/09823033
Patent No. US20020004225A1
GENERAL INFORMATION:
APPLICANT: Hart, Charles E.
TITLE OF INVENTION: METHODS FOR PROMOTING GROWTH OF BONE,
FILE REFERENCE: 00-12
CURRENT APPLICATION NUMBER: US/09/823,033
CURRENT FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5
LENGTH: 370
TYPE: PRN
ORGANISM: Homo sapiens
US-09-823-033-5

Query Match 100.0%; Score 1994; DB 10; Length 370;
Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
DB 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
QY 61 NGVOSPREPNSTPRNLLTLWRHLSOENRIQLVFNQGLBEAENDICRYDFVEVEDIS 120
DB 61 NGVOSPREPNSTPRNLLTLWRHLSOENRIQLVFNQGLBEAENDICRYDFVEVEDIS 120
QY 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
DB 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
QY 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240
DB 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240

|||||
DB 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240

QY 241 LDPPIRGSRSYHDKRSKVDLDRINDAKRISCTPRNYSVINIRELKLAVVFFPRCLLYQ 300
DB 241 LDPPIRGSRSYHDKRSKVDLDRINDAKRISCTPRNYSVINIRELKLAVVFFPRCLLYQ 300
QY 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360
DB 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360
QY 361 DCICSSRPPR 370
DB 361 DCICSSRPPR 370

RESULT 8

US-09-808-972-2
Sequence 2, Application US/09808972
Patent No. US20020064832A1
GENERAL INFORMATION:
APPLICANT: Hart, Charles E.
APPLICANT: Topouzis, Stavros
TITLE OF INVENTION: METHOD OF TREATING FIBROPROLIFERATIVE
FILE REFERENCE: 00-79
CURRENT APPLICATION NUMBER: US/09/808,972
CURRENT FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: US 60/235,295
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US 09/564,595
PRIOR FILING DATE: 2000-05-03
PRIOR APPLICATION NUMBER: US 60/180,169
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/164,463
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: US 60/132,250
PRIOR FILING DATE: 1999-05-03
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 2
LENGTH: 370
TYPE: PRN
ORGANISM: Homo sapiens
US-09-808-972-2

Query Match 100.0%; Score 1994; DB 10; Length 370;
Best Local Similarity 100.0%; Pred. No. 3e-161;
Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
DB 1 MHRLLFVYTLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRRDETIQVKG 60
QY 61 NGVOSPREPNSTPRNLLTLWRHLSOENRIQLVFNQGLBEAENDICRYDFVEVEDIS 120
DB 61 NGVOSPREPNSTPRNLLTLWRHLSOENRIQLVFNQGLBEAENDICRYDFVEVEDIS 120
QY 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
DB 121 ESTTIIRGRCGKHEVPRIKSTNOIKITFKSDDYFVAKPGFKIYSLLEDFOPAAASE 180
QY 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240
DB 181 TMESVTSISGVSNPSVPTDPTLLADALDKKIAEFDVEDLLKTFNPESMOEDLENNY 240
QY 241 LDPPIRGSRSYHDKRSKVDLDRINDAKRISCTPRNYSVINIRELKLAVVFFPRCLLYQ 300
DB 241 LDPPIRGSRSYHDKRSKVDLDRINDAKRISCTPRNYSVINIRELKLAVVFFPRCLLYQ 300
QY 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360
DB 301 RCGNGCGCTVMNRSCCTNSGKTGKYYHEVLOPEPGHKKRGRAKTALVDIOLDHHERC 360

Db 301 RCGNCGGTYNMNRSCTNSGKTYKKYHEVLQEPFGHIKRRGRAKTMALVDIQDHHERC 360
 QY 361 DCICSSRPPR 370
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 Db 361 DCICSSRPPR 370

RESULT 9

US-09-915-582-56
 ; Sequence 56, Application US/09915582
 ; Patent No. US20020120103A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: 17 Human Secreted Proteins
 ; FILE REFERENCE: P5723P1
 ; CURRENT APPLICATION NUMBER: US/09/915, 582
 ; PCT/US01/01431
 ; PRIOR FILING DATE: 2001-07-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/01431
 ; PRIOR FILING DATE: 2001-01-17
 ; PRIOR APPLICATION NUMBER: 60/179,065
 ; PRIOR FILING DATE: 2000-01-31
 ; PRIOR APPLICATION NUMBER: 60/180,628
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: 60/231,968
 ; PRIOR FILING DATE: 2000-09-12
 ; NUMBER OF SEQ ID NOS: 97
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 56
 ; LENGTH: 370
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-915-582-56

Query Match 100.0%; Score 1994; DB 10; Length 370;
 - Best Local Similarity 100.0%; Pred. No. 3e-161;
 Matches 370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHRLLFYTLICANFCSCRDTSATPOSASIKALNNANLRDESNHLLDLYRDETIQYKG 60
 |||||||||
 Db 1 MHRLLFYTLICANFCSCRDTSATPOSASIKALNNANLRDESNHLLDLYRDETIQYKG 60
 QY 61 NGYQSPRPSPSYRNLLTWRLHSEENTRIQVFNQFGLSEANDICRYDFVEVEDIS 120
 |||||||||
 Db 61 NGYQSPRPSPSYRNLLTWRLHSEENTRIQVFNQFGLSEANDICRYDFVEVEDIS 120
 QY 121 ETSTINGRMCGHKEVPRIKSRNQIKITFKSDDYFAKGFKIYSLDFQPAASE 180
 |||||||||
 Db 121 ETSTINGRMCGHKEVPRIKSRNQIKITFKSDDYFAKGFKIYSLDFQPAASE 180
 QY 181 TNMESVTSISGVSNSPSYDPTLADALDKKTAEPDVTEDLAKYFNPESMODLEMY 240
 |||||||||
 Db 181 TNMESVTSISGVSNSPSYDPTLADALDKKTAEPDVTEDLAKYFNPESMODLEMY 240
 QY 241 LDTPRYGRSYHDKRSKYVDLRLNDADAKRYSCTPRNYSVNIREFELKLANVFFPRCLLYQ 300
 |||||||||
 Db 241 LDTPRYGRSYHDKRSKYVDLRLNDADAKRYSCTPRNYSVNIREFELKLANVFFPRCLLYQ 300
 QY 301 RCGNCGGTYNMNRSCTNSGKTYKKYHEVLQEPFGHIKRRGRAKTMALVDIQDHHERC 360
 |||||||||
 Db 301 RCGNCGGTYNMNRSCTNSGKTYKKYHEVLQEPFGHIKRRGRAKTMALVDIQDHHERC 360
 QY 361 DCICSSRPPR 370
 |||||||||
 Db 361 DCICSSRPPR 370

RESULT 10
 US-09-915-582-74
 ; Sequence 74, Application US/09915582
 ; Patent No. US20020120103A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: 17 Human Secreted Proteins

FILE REFERENCE: P5723P1
 ; CURRENT APPLICATION NUMBER: US/09/915, 582
 ; PCT/US01/01431
 ; PRIOR FILING DATE: 2001-07-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/01431
 ; PRIOR FILING DATE: 2001-01-17
 ; PRIOR APPLICATION NUMBER: 60/179,065
 ; PRIOR FILING DATE: 2000-01-31
 ; PRIOR APPLICATION NUMBER: 60/180,628
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: 60/231,968
 ; PRIOR FILING DATE: 2000-09-12
 ; NUMBER OF SEQ ID NOS: 97
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 74
 ; LENGTH: 370
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: SITE
 ; LOCATION: (216)
 ; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 ; US-09-915-582-74

Query Match 99.7%; Score 1988; DB 10; Length 370;
 - Best Local Similarity 99.7%; Pred. No. 9.6e-161;
 Matches 369; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MHRLLFYTLICANFCSCRDTSATPOSASIKALNNANLRDESNHLLDLYRDETIQYKG 60
 |||||||||
 Db 1 MHRLLFYTLICANFCSCRDTSATPOSASIKALNNANLRDESNHLLDLYRDETIQYKG 60
 QY 61 NGYQSPRPSPSYRNLLTWRLHSEENTRIQVFNQFGLSEANDICRYDFVEVEDIS 120
 |||||||||
 Db 61 NGYQSPRPSPSYRNLLTWRLHSEENTRIQVFNQFGLSEANDICRYDFVEVEDIS 120
 QY 121 ETSTINGRMCGHKEVPRIKSRNQIKITFKSDDYFAKGFKIYSLDFQPAASE 180
 |||||||||
 Db 121 ETSTINGRMCGHKEVPRIKSRNQIKITFKSDDYFAKGFKIYSLDFQPAASE 180
 QY 181 TNMESVTSISGVSNSPSYDPTLADALDKKTAEPDVTEDLAKYFNPESMODLEMY 240
 |||||||||
 Db 181 TNMESVTSISGVSNSPSYDPTLADALDKKTAEPDVTEDLAKYFNPESMODLEMY 240
 QY 241 LDTPRYGRSYHDKRSKYVDLRLNDADAKRYSCTPRNYSVNIREFELKLANVFFPRCLLYQ 300
 |||||||||
 Db 241 LDTPRYGRSYHDKRSKYVDLRLNDADAKRYSCTPRNYSVNIREFELKLANVFFPRCLLYQ 300
 QY 301 RCGNCGGTYNMNRSCTNSGKTYKKYHEVLQEPFGHIKRRGRAKTMALVDIQDHHERC 360
 |||||||||
 Db 301 RCGNCGGTYNMNRSCTNSGKTYKKYHEVLQEPFGHIKRRGRAKTMALVDIQDHHERC 360
 QY 361 DCICSSRPPR 370
 |||||||||
 Db 361 DCICSSRPPR 370

RESULT 11
 US-10-028-072-186
 ; Sequence 186, Application US/10028072
 ; Publication No. US20030004311A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Beresini, Maureen
 ; APPLICANT: DeForge, Laura
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Geritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria

APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K
APPLICANT: Wood, William
APPLICANT: Zhang
TITLE OF INVENTION:
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/10/028,072
CURRENT FILING DATE: 2001-12-19
PRIOR APPLICATION NUMBER: 60/049911
PRIOR FILING DATE: 1997-06-18
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059113
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059117
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059122
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059184
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059352
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 60/059836
PRIOR FILING DATE: 1997-09-24
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062287
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062814
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063045
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063127
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063327
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063550
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063561
PRIOR FILING DATE: 1997-10-28
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PRIOR FILING DATE: 1997-10-29
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PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063735
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063738
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063755
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064248
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/064809
PRIOR FILING DATE: 1997-11-07
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065846
PRIOR FILING DATE: 1997-11-17

PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066453
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066511
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069212
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069278
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069334
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/072320
PRIOR FILING DATE: 1998-01-23
PRIOR APPLICATION NUMBER: 60/073612
PRIOR FILING DATE: 1998-02-04
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-02-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081695
PRIOR FILING DATE: 1998-04-14
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081818
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082999
PRIOR FILING DATE: 1998-04-24
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083545
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084627
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085149
PRIOR FILING DATE: 1998-05-12
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085338
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085339
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086414

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; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/086430
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088730
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088741
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088810
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088858
; PRIOR FILING DATE: 1998-06-11
; PRIOR APPLICATION NUMBER: 60/089332
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089599
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089907
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089947
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090538
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
;
Query Match          97.7%; Score 1949; DB 9; Length 364;
Best Local Similarity 98.4%; Pred. No. 1.9e-157;
Matches 364; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

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QY 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDESNHLLDLYRDETIQYKG 60
DB 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRD-----DLYRDETIQYKG 54
QY 61 NGYVSPRPFPNSYPNNLLTWRLHSEWTRIQLVFDNOFGLAEANDICRDVEVEDIS 120
DB 55 NGYVSPRPFPNSYPNNLLTWRLHSEWTRIQLVFDNOFGLAEANDICRDVEVEDIS 114
QY 121 ESTIIRGRMCCHKKEVPPRIKSRITNQIKITFKSDYFYAKPGFKIYYSILEDFOPAASE 180
DB 115 ESTIIRGRMCCHKKEVPPRIKSRITNQIKITFKSDYFYAKPGFKIYYSILEDFOPAASE 174
QY 181 TNMESVTSISIGSVSNPSVTDPLIADALDKKIAEFTVEDLKYFNPESMOEDLENNY 240
DB 175 TNMESVTSISIGSVSNPSVTDPLIADALDKKIAEFTVEDLKYFNPESMOEDLENNY 234
QY 241 LDTFRYGRGRSYHDRKSKYDLDRNDADARYSCTPNYSVNTREELKLANVYFFPCCLLYQ 300
DB 235 LDTFRYGRGRSYHDRKSKYDLDRNDADARYSCTPNYSVNTREELKLANVYFFPCCLLYQ 294
QY 301 RCGNCGCGTVMNRSCCTNSGKTYKYEVLQFEFGHKKRRGRATMALVLDIQLDHHERC 360
DB 295 RCGNCGCGTVMNRSCCTNSGKTYKYEVLQFEFGHKKRRGRATMALVLDIQLDHHERC 354
QY 361 DCICSSRPPR 370
DB 355 DCICSSRPPR 364

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RESULT 12
US-10-121-049-186
; Sequence 186, Application US/10121049
; Publication No. US2003002239A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C17
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-121-049-186

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Query Match          97.7%; Score 1949; DB 9; Length 364;
Best Local Similarity 98.4%; Pred. No. 1.9e-157;
Matches 364; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

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QY 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRDESNHLLDLYRDETIQYKG 60
DB 1 MHRLLFYVTLICANFCSCRDTSATPQASIKALRNANLRD-----DLYRDETIQYKG 54
QY 61 NGYVSPRPFPNSYPNNLLTWRLHSEWTRIQLVFDNOFGLAEANDICRDVEVEDIS 120
DB 55 NGYVSPRPFPNSYPNNLLTWRLHSEWTRIQLVFDNOFGLAEANDICRDVEVEDIS 114
QY 121 ESTIIRGRMCCHKKEVPPRIKSRITNQIKITFKSDYFYAKPGFKIYYSILEDFOPAASE 180
DB 115 ESTIIRGRMCCHKKEVPPRIKSRITNQIKITFKSDYFYAKPGFKIYYSILEDFOPAASE 174
QY 181 TNMESVTSISIGSVSNPSVTDPLIADALDKKIAEFTVEDLKYFNPESMOEDLENNY 240
DB 175 TNMESVTSISIGSVSNPSVTDPLIADALDKKIAEFTVEDLKYFNPESMOEDLENNY 234
QY 241 LDTFRYGRGRSYHDRKSKYDLDRNDADARYSCTPNYSVNTREELKLANVYFFPCCLLYQ 300
DB 235 LDTFRYGRGRSYHDRKSKYDLDRNDADARYSCTPNYSVNTREELKLANVYFFPCCLLYQ 294
QY 301 RCGNCGCGTVMNRSCCTNSGKTYKYEVLQFEFGHKKRRGRATMALVLDIQLDHHERC 360
DB 295 RCGNCGCGTVMNRSCCTNSGKTYKYEVLQFEFGHKKRRGRATMALVLDIQLDHHERC 354
QY 361 DCICSSRPPR 370
DB 355 DCICSSRPPR 364

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RESULT 13
US-10-123-904-186
; Sequence 186, Application US/10123904
; Publication No. US20030022328A1
; GENERAL INFORMATION:

```

```

; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C54
; CURRENT APPLICATION NUMBER: US/10/123,904
; CURRENT FILING DATE: 2002-04-16
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PR1
; ORGANISM: Homo Sapien
; US-10-123-904-186

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Query Match          97.7%; Score 1949; DB 9; Length 364;
Best Local Similarity 98.4%; Pred. No. 1,9e-157;
Matches 364; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

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QY 1 MHRLEFYLLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRDETTIOVGK 60
DB 1 MHRLEFYLLICANFCSCRDTSATPOSASIKALRNANLRD-----DLRRDETTIOVGK 54
QY 61 NGVOSRPFNSYPRNLLTLWRHLSQENTRIQLVFNQFGLERENDICRYDEVEVDIS 120
DB 55 NGVOSRPFNSYPRNLLTLWRHLSQENTRIQLVFNQFGLERENDICRYDEVEVDIS 114
QY 121 ESTIIRGRMGCKEYPPRIKSRNTOIKITFKSDDYFVAPGFKIYSLLEDPQPAASE 180
DB 115 ESTIIRGRMGCKEYPPRIKSRNTOIKITFKSDDYFVAPGFKIYSLLEDPQPAASE 174
QY 181 TMSVSTSSISGVSYNSPSVTDPTLLADALDKKIAEDYEDLLKTFNPESMOEDLENMY 240
DB 175 TMSVSTSSISGVSYNSPSVTDPTLLADALDKKIAEDYEDLLKTFNPESMOEDLENMY 234
QY 241 LDPFRYRGSRHYHRRKSKVDLRLNDADAKRYCTPRNYSVNIIRBELKIANVFFPCLLYQ 300
DB 235 LDPFRYRGSRHYHRRKSKVDLRLNDADAKRYCTPRNYSVNIIRBELKIANVFFPCLLYQ 294
QY 301 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIRKGRAKTMALVDIOLDHNERC 360
DB 295 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIRKGRAKTMALVDIOLDHNERC 354
QY 361 DCICSSRPPR 370
DB 355 DCICSSRPPR 364

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RESULT 14
; US-10-140-470-186
; Sequence 186, Application US/10140470
; Publication No. US20030022331A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen

```

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; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C160
; CURRENT APPLICATION NUMBER: US/10/140,470
; CURRENT FILING DATE: 2002-05-06
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 186
; LENGTH: 364
; TYPE: PR1
; ORGANISM: Homo Sapien
; US-10-140-470-186

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Query Match          97.7%; Score 1949; DB 9; Length 364;
Best Local Similarity 98.4%; Pred. No. 1,9e-157;
Matches 364; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

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```

QY 1 MHRLEFYLLICANFCSCRDTSATPOSASIKALRNANLRDESNHLLTDLYRDETTIOVGK 60
DB 1 MHRLEFYLLICANFCSCRDTSATPOSASIKALRNANLRD-----DLRRDETTIOVGK 54
QY 61 NGVOSRPFNSYPRNLLTLWRHLSQENTRIQLVFNQFGLERENDICRYDEVEVDIS 120
DB 55 NGVOSRPFNSYPRNLLTLWRHLSQENTRIQLVFNQFGLERENDICRYDEVEVDIS 114
QY 121 ESTIIRGRMGCKEYPPRIKSRNTOIKITFKSDDYFVAPGFKIYSLLEDPQPAASE 180
DB 115 ESTIIRGRMGCKEYPPRIKSRNTOIKITFKSDDYFVAPGFKIYSLLEDPQPAASE 174
QY 181 TMSVSTSSISGVSYNSPSVTDPTLLADALDKKIAEDYEDLLKTFNPESMOEDLENMY 240
DB 175 TMSVSTSSISGVSYNSPSVTDPTLLADALDKKIAEDYEDLLKTFNPESMOEDLENMY 234
QY 241 LDPFRYRGSRHYHRRKSKVDLRLNDADAKRYCTPRNYSVNIIRBELKIANVFFPCLLYQ 300
DB 235 LDPFRYRGSRHYHRRKSKVDLRLNDADAKRYCTPRNYSVNIIRBELKIANVFFPCLLYQ 294
QY 301 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIRKGRAKTMALVDIOLDHNERC 360
DB 295 RCGNGCGGTVMNRSCCTNSGKTVKKYHEVLOFEPGHIRKGRAKTMALVDIOLDHNERC 354
QY 361 DCICSSRPPR 370
DB 355 DCICSSRPPR 364

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RESULT 15
; US-10-175-746-186
; Sequence 186, Application US/10175746
; Publication No. US20030027270A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: Deforge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.

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; APPLICANT: Sherwood, Steven
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K
 ; APPLICANT: Wood, William
 ; APPLICANT: Zhang, Zemin
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME
 ; FILE REFERENCE: P330R1C353
 ; CURRENT APPLICATION NUMBER: US/10/175,746
 ; CURRENT FILING DATE: 2002-06-19
 ; Prior Application removed - See File Wrapper or Palm
 ; NUMBER OF SEQ ID NOS: 550
 ; SEQ ID NO 186
 ; LENGTH: 364
 ; TYPE: PRT
 ; ORGANISM: Homo Sapien
 US-10-175-746-186

Query Match 97.7%; Score 1949; DB 9; Length 364;
 Best Local Similarity 98.4%; Pred. No. 1.9e-157;
 Matches 364; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

QY	1	MHRLIFYTLLICANFCSCROTATPOSASIKALRNANLRDESNHLTDLYRDETIOYKG	60
DB	1	MHRLIFYTLLICANFCSCROTATPOSASIKALRNANLRD-----DLYRDETIOYKG	54
QY	61	NGYVQSPREFPNSTYRNLLTWRLHSQENTRIQLVFNQGLLEAENDICRYDFVEVEDIS	120
DB	55	NGYVQSPREFPNSTYRNLLTWRLHSQENTRIQLVFNQGLLEAENDICRYDFVEVEDIS	114
QY	121	ETSTLIGRMCGHKEVPPRIKSRNQIKITFKSDDYFAKPGFKIYSLLEDFOPAASE	180
DB	115	ETSTLIGRMCGHKEVPPRIKSRNQIKITFKSDDYFAKPGFKIYSLLEDFOPAASE	174
QY	181	TNMSVTSISISGVSNPSVTDPTLIADALDKIAEFTVEDLKYFNPESMOEDLENNY	240
DB	175	TNMSVTSISISGVSNPSVTDPTLIADALDKIAEFTVEDLKYFNPESMOEDLENNY	234
QY	241	LDTPRYRGRSYHDKRSKYDLRLNDDAKRYSCTPRNYSVNI REIKLANVVEFPRCLLVQ	300
DB	235	LDTPRYRGRSYHDKRSKYDLRLNDDAKRYSCTPRNYSVNI REIKLANVVEFPRCLLVQ	294
QY	301	RCGNCGCGTVMRSCTGNSGKTYKKYHEVLOFEPGHKKRGRAKTMAVLDIQLDHHERC	360
DB	295	RCGNCGCGTVMRSCTGNSGKTYKKYHEVLOFEPGHKKRGRAKTMAVLDIQLDHHERC	354
QY	361	DCICSSRPPR 370	
DB	355	DCICSSRPPR 364	

Search completed: June 12, 2003, 15:40:45
 Job time : 25 secs

